

Active Transportation & Complete Streets Projects

Name of Project Hillsdale Town Center Pedestrian Connections: Sidewalk Infill on SW Beaverton-

Hillsdale Highway (project name will be adjusted to comply with ODOT naming convention if necessary)

Project application

The project application provides in depth process, location and project definition details and serves as the nomination form for project funding consideration. **Project applications should be kept to 12 pages total per project.** The application form is available electronically at: <u>http://www.oregonmetro.gov/rffa</u>. Please complete the following:

Project Definition

Project Description

- Facility or area: street(s), intersection(s), path or area:
 SW Dosch Road from Beaverton-Hillsdale Hwy. to 200' north
 SW Beaverton-Hillsdale Hwy. from SW Dosch Rd. to SW 18th Drive (Hillsdale Town Center)
- Beginning facility or milepost. SW Beaverton-Hillsdale Hwy. & SW Dosch
- Ending facility or milepost:
 SW Dosch, 200' north of SW Beaverton-Hillsdale Hwy. & SW Dosch
 SW Beaverton-Hillsdale Hwy. & SW 18th Drive (Hillsdale Town Center)
- **Provide a brief description of the project elements.** On SW Dosch, construct 200' (total 400') of sidewalk on both sides. On SW Beaverton-Hillsdale Hwy., construct 1,750' (total 3,500') of sidewalk or multi-use path on both sides. SW Beaverton-Hillsdale Hwy. is part of a Metro Mobility Corridor and classified as a Pedestrian Parkway by Metro and a Major City Traffic Street by the City of Portland.
- City (ies). Portland
- County(ies). Multnomah

Base project information

- Corresponding RTP project number(s) for the nominated project: 10278: Hillsdale Pedestrian District 10279: Beaverton-Hillsdale Hwy, SW (Capitol Hwy – 65th): Multi-modal Improvements
- Attach a completed Public Engagement and Non-discrimination checklist (Appendix A).
- Purpose and need statement:

The proposed project will make walking significantly safer and easier on a high-speed, high-traffic Metro Pedestrian Parkway by adding sidewalk, grade-separated multiuse pathway, lighting and street trees. A concurrent, funded repaying project will also shorten pedestrian crossing distances and

narrow motor vehicle lane widths in the project area. The proposed project will help people use active transportation to access a variety of essential services in a designated town center, including two community centers, five schools, two public parks and a grocery store. Nearby residents include 1,384 children and 772 older adults, who are especially vulnerable to death or serious injury in crashes that occur while walking.

Current walking conditions on SW Beaverton-Hillsdale Highway are poor. People who walk on SW Beaverton-Hillsdale Highway generally must share space with people biking on a roadway with posted motor vehicle speeds of up to 40 miles per hour. The deficient conditions have likely contributed to a series of crash deaths and serious injuries, which have earned the project area a place on Metro's regional map of hotspots for fatal and near fatal crashes, including for people walking and biking. The City of Portland has also placed SW Beaverton-Hillsdale Hwy. on its High Crash Network due to its frequency of deaths and serious injuries (see <u>www.visionzeroportland.com</u>).

- Attach a completed Active Transportation Design checklist (Appendix C).
- Description of post implementation measurement of project effectiveness (Metro staff is available to help design measurement methodologies for post-construction project criteria performance). First, PBOT will conduct pre- and post-project traffic counts that will include bicycle and pedestrian use. Bicycles and pedestrian traffic will be monitored with manual traffic counts. The methodology will be consistent with PBOT's annual Bicycle Count Reports and pedestrian count methodology used for engineering evaluations. Motor vehicle traffic is not expected to change with these sidewalk and pathway improvements.

Second, PBOT will measure safety by evaluating pre- and post-project traffic crash data. Traffic crash information will be monitored for early performance. However, the best data analysis can only take place at least three years post-project. PBOT will monitor to compare pre- and post- crash data in three- and five-year evaluations.

Third, PBOT will gather information on user experience. PBOT will conduct pre- and post-project intercept surveys on the affected streets. The purpose will be to ask about comfort, safety, and convenience of walking and bicycling along the treated roadways.

Project Cost and Funding Request Summary

 Attach a completed Cost Methodology workbook (Appendix E) or alternative cost methodology. Describe how the project cost estimate was determined, including details on project readiness and ability for project funding to be obligated within the 2019-21 timeframe. Reference availability of local match funds, status of project development relative to the requirements of federal-aid projects, and indicators of political and community support

The project cost estimate was determined by engineers in the Civil Design Services and Traffic Design Services sections at PBOT, based on a scope jointly developed by planners and engineers familiar with

the project area. In order to support extensive and inclusive community engagement, PBOT has added an additional \$80,000 to the attached cost estimate; this additional funding will support community engagement for project development, construction, demand management, and project measurement.

This project has a high level of readiness. Funding for the project can be obligated within the allotted timeframe. This project is not expected to have significant environmental impacts and would be eligible for a categorical exclusion under NEPA. The local funding will come from Transportation System Development Charges, an ongoing revenue stream for PBOT that is eligible to be used for a portion of the cost of capacity-enhancing projects. Elements of this project have been identified as priorities in multiple locally-adopted plans, including Portland's Transportation System Plan and Metro's Regional Transportation Plan.

Political and community support is high for this project. Portland City Council passed Ordinance No. 187954 directing PBOT to submit this and other RFF grant applications on August 17, 2016. See attached Ordinance. This grant was prioritized and selected based on input from the City's modal advisory committees and the Transportation Justice Alliance during the Spring and Summer of 2016. In addition, PBOT's High Crash Corridor program targeted engineering and education safety work along Beaverton-Hillsdale Hwy. from 2011 to 2013. During this time, PBOT staff engaged with SWNI District Coalition, neighborhood associations and individuals traveling, working and living along Beaverton-Hillsdale Hwy. Groups and individuals consistently called for pedestrian facilities along the high-speed, multi-lane street for safe access to bus stops, schools, businesses and homes.

- Total project cost: \$3,128,000
- RFFA funding request by project phase:
 - O PE: \$685,800
 - o ROW: \$114,300
 - o Construction: \$1,485,900
 - o TDM: \$60,000
- Local match or other funds:
 - o \$782,000 (25% of estimated total project cost)

Map of project area

• Provide a map of the project consistent with GIS shapefile standards found in Appendix B

Project sponsor agency

- Contact information (phone # & email) for:
- Application lead staff: Matt Ferris-Smith, 503-823-5831, matt.ferris-smith@portlandoregon.gov
- Project Manager: Dan Layden, 503-823-2804, dan.layden@portlandoregon.gov
- Project Engineer: Lola Gailey, 503-823-7563, lola.gailey@portlandoregon.gov

• Describe the agencies record in delivering federal aid transportation projects on time and budget or whether the lead agency has failed to deliver a federal aid transportation project and if so, why. The Portland Bureau of Transportation was among the first agencies in Oregon to be fully certified by ODOT to deliver federal aid projects. PBOT has successfully delivered federal transportation projects for over 20 years, including large bridges, active transportation facilities and Safe Routes to School improvements. PBOT has completed the majority of the projects on time and on budget. When projects have encountered budget issues, PBOT has identified funding to deliver the projects successfully.

A few PBOT projects have been delayed in the past. These delays were generally caused by permitting and right-of-way issues. Those issues are resolved for all current projects, which are on track to be delivered.

The following are examples of previously awarded RFFA projects and their status:

- O N. Lombard/St. Louis/Ivanhoe/Philadelphia intersection project Construction Phase completed in 2012
- N. Portland Rd/Columbia Blvd intersection project
 2014/15 RFFA. Planning and Design Phase completed in 2013. Construction Phase funded by
 STIP and will begin in 2017
- North Time Oil Road-Burgard Street Intersection Project 2014/15 RFFA. Awaiting notice to proceed from FHWA.
- Going to the Island Freight Improvement Project
 2014/15 RFFA. Design Phase to be completed in 2017 and Construction completed in 2019
- South Rivergate Freight improvement Project
 2016-18 RFFA. Design Phase to begin in 2016. Project construction will be funded by multiple
 local and federal funding sources
- SE Foster Road
 2014-2016 and 2015-2017 RFFA. Design phase underway. Construction to occur in 2017
- Describe how the agency currently has the technical, administrative and budget capacity to deliver the project, with an emphasis on accounting for the process and requirements of federal aid transportation projects.

PBOT has staff capable of providing administrative services related to project management and technical services related to design engineering. PBOT project managers and delivery staff also have extensive experience in delivering federal transportation projects. The bureau has a long track record of delivering federal projects that meet Federal Highway Administration requirements.

Highest priority criteria

1. What communities will the proposed project serve? What are the estimated totals of low-income, low-English proficiency, non-white, elderly and young, and persons with disabilities populations that will benefit from this project, and how will they benefit?

The proposed sidewalk infill will make walking significantly safer and easier for the approximately 5,846 people living in census tracts intersecting the project area. This population includes an estimated 456 low-income households, 31 people with low English proficiency, 531 people who are non-white, 772 people who are elderly, 1,384 people who are young, and 395 people who have disabilities. (These numbers are based on the 2010-2014 American Community Survey five-year data profile.) Much of the project area is zoned for multi-family housing. Portland's recently adopted 2035 Comprehensive Plan maintains multifamily housing along much of SW Beaverton-Hillsdale Highway, allowing one unit per 1,000 or 2,000 square feet of site area, depending on the location.

Currently, people walking on SW Beaverton-Hillsdale Highway (also known as Highway 10) within the project area must share space with people biking. The unprotected bike lanes run alongside people driving at posted speeds of up to 40 miles per hour. At 40 miles per hour, a person hit while walking has an 80 percent probability of dying or being seriously injured.

The benefits of sidewalk facilities are especially valuable for the communities noted above. Research indicates that people with low incomes, low English proficiency, non-white people, elderly and young people, and people with disabilities are more likely to travel by foot or mobility device, relative to average national travel patterns. In addition, children and older adults are more likely to be killed or seriously injured in the event of a crash, relative to young and middle-aged adults.

2. What safety problem does the proposed project address in an area(s) with higher-than-average levels of fatal and severe crashes? How does the proposed project make people feel safer in an area with high walking and bicycling demand by removing vehicle conflicts?

This project will make people safer by providing more separation between people walking, biking and driving on both sides of SW Beaverton-Hillsdale Highway and SW Dosch Rd. in an area that has significantly below average proximity to sidewalk facilities relative to the Metro region.

The project area is a known safety risk. As part of its Vision Zero program, the City of Portland has identified SW Beaverton-Hillsdale Highway as a High Crash Corridor (see <u>www.visionzeroportland.com</u>). Metro has identified the project area as a regional "hotspot" for fatal and near fatal crashes, including for people walking and biking. Two people walking have been seriously injured and one person died while walking on SW Beaverton-Hillsdale Highway in Portland between 2005 and 2014. During the same time period, 15 people driving have been seriously injured and two people have died on SW Beaverton-Hillsdale Highway in Portland.

There is strong demand for walking and biking within the project area. This is likely due in part to Hillsdale Town Center's above average concentration of essential services. According to Metro's 2015 Mobility Atlas, SW Beaverton-Hillsdale Highway serves transit volumes of between 5,001 and 10,000 people per day within the project area. Most people who ride transit also walk at some point during their trip, which means they are likely to benefit from the proposed project. Metro's atlas also indicates that between 251 and 500 people bike daily in the project area along SW Beaverton-Hillsdale Highway. While crashes between people walking and biking are less dangerous relative to those involving people driving, physical separation generally helps people to feel safer in both situations.

3. What priority destinations will the proposed project will serve? How will the proposed project improve access to these destinations?

The proposed sidewalk on SW Dosch Rd. and SW Beaverton-Hillsdale Highway will help people access a variety of priority destinations in an area with a higher than average concentration of essential services, including two community centers (Oregon Latvian Community Center and the Mittleman Jewish Community Center), five schools (Robert Gray Middle School, Rieke Elementary School, Portland Jewish Academy, Multnomah Playschool and the Hilltop Preschool & Kindergarten at Portland Christian Center), five religious facilities (Japanese Fellowship Church, Congregation Neveh Shalom, Chabad of Oregon, Portland Christian Center and the Greater Portland Bible Church), two public parks (Hillsdale City Park and Dewitt City Park), three medical facilities (Fanno Creek Medical Clinic, Bowman's Hillsdale Pharmacy and Hillsdale Veterinary Facility), food sources (Food Front Cooperative, Hillsdale Farmer's Market and assorted restaurants), and other destinations including a U.S. Post Office, Multnomah County Library branch, banks and the Portland Ballet.

In addition, the proposed project improves access to six TriMet bus stops serving two lines and to the Red Electric Trail, a partially completed four-mile path for people walking and biking that is included in Metro's 2013 report on regional trails and greenways.

The proposed project improves access to the destinations noted above by providing safe walking facilities, a majority of which will be on a Metro-identified "pedestrian parkway" (SW Beaverton-Hillsdale Highway). For some destinations, the proposed project will construct sidewalk directly adjacent to their sites; in other cases, the proposed project will improve access by connecting with existing walking facilities, which indirectly support access to the priority destinations.

4. How will the proposed project support the existing and planned housing/employment densities in the project area?

Both existing and planned housing and employment densities benefit from the proposed project because sidewalks provide people with an additional travel option—walking—in order to access destinations.

Much of the project area is zoned for multi-family housing. Portland's recently adopted 2035 Comprehensive Plan maintains multifamily housing along much of SW Beaverton-Hillsdale Highway,

allowing one unit per 1,000 or 2,000 square feet of site area, depending on the location. Portland projects that total housing units within a half mile of the project area will increase from 3,628 to 4,849 units by 2035.

Employment densities are expected to grow in and around the project area. The new Comprehensive Plan rezoned much of the Hillsdale Town Center as "Central Commercial," which encourages multiple uses, high building coverage, large buildings, and buildings placed close together alongside a pedestrian-oriented, safe and attractive streetscape. By the year 2035, Portland expects jobs within a half mile of the project area to increase from 1,690 to 2475 jobs. As housing and employment densities increase, the proposed project will serve increasing numbers of people and jobs, providing additional value to the community and region.

Higher priority criteria

5. How does the proposed project complete a gap or improve a deficiency in the Regional Active Transportation network? (See Appendix 1 of the Regional ATP: Network Completion, Gaps and Deficiencies).

The proposed project helps complete a pedestrian network gap by adding sidewalk on a segment of SW Dosch Rd. between the Highway 26 Trail and Beaverton-Hillsdale Hwy, a designated Pedestrian Parkway. (ATP ID B9). In addition, the proposed project helps complete a pedestrian network gap by adding sidewalk on a segment of SW Beaverton-Hillsdale Hwy. between SW Dosch Rd. and SW 18th Dr. (ATP ID B9 and P11). Metro's Pedestrian District Summary Matrix gives the Hillsdale Pedestrian District (#22) the lowest possible rating for sidewalk completion.

6. What design elements of the proposed project will lead to increased use of Active Transportation modes by providing a good user experience/increasing user comfort? What barriers will be eliminated or mitigated?

The proposed project will lead to increased use of Active Transportation modes by providing access to sidewalk facilities connecting residential and commercial areas. Shortened pedestrian crossing distances, narrowed motor vehicle lanes, and additional lighting and street trees will also help provide good user experience and increase user comfort. (See Appendix C for design details.)

Currently, people walking on SW Beaverton-Hillsdale Hwy. in the project area must walk in the bike lane on street segments with posted motor vehicle speeds as high as 40 miles per hour. People walking on SW Dosch must walk in motor vehicle travel lanes or on unpaved "desire paths" alongside the street. Without improved sidewalk facilities, it is likely that people who might consider walking in the project area—including people who might consider walking to a bus stop—choose to drive instead.

The proposed project will eliminate a barrier created by the winding, disconnected nature of the street network in the project area. People who do not feel comfortable walking on today's SW Beaverton-

Hillsdale Highway may have no good alternative; the closest parallel streets, SW Bertha Blvd. and SW Boundary St., have no sidewalks and require significant out-of-direction travel.

7. How does the proposed project complete a so-called 'last-mile' connection between a transit stop/station and an employment area(s)?

The proposed project serves six bus stops for TriMet lines 54 and 56, which connect Beaverton Transit Center and Washington Square with Portland City Center. TriMet recently enhanced the service to both bus lines, which are Frequent Service lines that run every 15 minutes or better most days.

Priority criteria

8. How the public will be engaged relative to the proposed project? Include description of engagement during project development and construction, as well as demand management efforts to increase public awareness and utilization of the project post-construction. (Metro Regional Travel Options staff is available to help design an effective and appropriate level of education and marketing for your project nomination).

Before beginning engagement, PBOT will complete a stakeholder analysis to identify potentially impacted businesses, community organizations and historically underrepresented populations, user groups and other potential audiences to engage. PBOT staff will document consideration of potential distribution of benefits and burdens, especially as pertaining to people of color, people with Limited English Proficiency and people with low income. A plan for engagement will be created and will include specific milestones and engagement activities. Public engagement during project development and construction will follow the International Association for Public Participation (IAP2) Spectrum of Public Participation framework in which a variety of engagement tools will be used in order to inform, consult, involve and collaborate with community members at large and those who could potentially be impacted by project decisions.

PBOT will keep the public informed, listen to and acknowledge concerns, work with the public to ensure that concerns and issues are directly reflected in the alternatives developed and provide feedback on how public input influenced the decisions. Where possible, PBOT will look to the public for direct advice and innovation in formulating solutions and will incorporate public advice and recommendations into the decisions to the maximum extent possible. At every opportunity, staff will conduct culturally-responsive and language-based outreach and engagement especially focused to traditionally underserved communities. Public engagement tools to be used for informing the public may include website, social media updates, interested parties' emails, selective advertising, press releases, earned media and mailers. Tools to consult, involve and collaborate with the public may also include community advisory groups, public workshops, feedback surveys, open houses, focus groups, Community Engagement Liaison services and direct contact with businesses, neighborhood and cultural organizations and community groups. After the project is completed, we will use demand management programs to increase public awareness and utilization of the projects. Portland's long-running SmartTrips program will conduct targeted awareness activities and guided walks to ensure people are aware of their newly improved active transportation options.

9. What additional sources of funding, and the amounts, will be leveraged by an investment of regional flexible funds in the proposed project?

The City of Portland will contribute local match funds totaling \$782,000 in order to leverage an investment of regional flexible funds in the proposed project. This is 25% of the estimated total project cost.

10. How will the proposed project provide people with improved options to driving in a congested corridor?

The proposed project provides people with a safe alternative to driving on SW Beaverton-Hillsdale Highway. SW Beaverton-Hillsdale Hwy. is part of Metro Mobility Corridor 13, which connects Portland Central City and Beaverton. According to Metro's 2015 Mobility Corridor Atlas, this mobility corridor serves 140,046 residents and supports 170,280 jobs, and carries between 2,000 and 10,000 vehicles total during peak morning and evening periods. The proposed project fills a critical gap for people who already—or might consider—walking instead of driving on the congested SW Beaverton-Hillsdale Hwy.

• Process

Describe the planning process that led to the identification of this project and the process used to identify the project to be put forward for funding consideration. (Answer should demonstrate that the process met minimum public involvement requirements for project applications per Appendix A)

In the spring of 2014, PBOT staff began the process of forming a Candidate list of Major Projects for inclusion in the TSP. This process began by considering projects that were included in the 2007 TSP, the 2014 TRP, or other plans adopted since 2007. The TSP Major Project List update process included extensive opportunities for public engagement with projects displayed on the 2035 Comprehensive Plan Proposed Draft Map App starting in June 2014. Members of the public were invited to comment directly through the Map App, and there was extensive community outreach at meetings and events. As noted in our certification of Appendix A – the public engagement and non-discrimination certification, PBOT developed and used a thorough public engagement plan which included stakeholder analysis and a focus on efforts to engage underrepresented populations.

In order to develop the TSP Major Projects list, projects were also evaluated based on criteria that measures the following: safety, neighborhood access, economic benefit, health, equity, climate, costs effectiveness and community support. This evaluation, along with additional public feedback, helped to determine the final TSP Major Projects List.

When looking for projects to be considered for this funding opportunity, PBOT staff looked to projects identified within the above TSP Major Projects selection process. We narrowed this large list by also

considering the specific RFF grant criteria, the availability of match, readiness factors for projects, feedback from PBOTs pedestrian and bicycle advisory committees, feedback from the Transportation Justice Alliance, other City Bureau priorities, and community needs identified not only within the TSP, but also from additional ongoing planning efforts and bureau commitments.

Describe how you coordinated with regional or other transportation agencies (e.g. Transit, Port, ODOT, Metro, Freight Rail operators, ODOT Region 1, Regional Safety Workgroup, and Utilities if critical to use of right-of-way) and how it impacted the project location and design.

This project proposal did not require coordination with other transportation agencies. SW Beaverton-Hillsdale Hwy is a City of Portland right-of-way and this project would not negatively impact other agency facilities. During project design, PBOT will coordinate with TriMet regarding the location and design of bus stops.

APPENDIX A - ENVIRONMENTAL JUSTICE COMPLIANCE

Public engagement and non-discrimination certification Regional flexible funds 2019-21

Background and purpose

Use of this checklist is intended to ensure project applicants have offered an adequate opportunity for public engagement, including identifying and engaging historically underrepresented populations. Applications for project implementation are expected to have analyzed the distribution of benefits and burdens for people of color, people with limited English proficiency and people with low income compared to those for other residents.

The completed checklist will aid Metro in its review and evaluation of projects.

Instructions

Applicants must complete this certification, including a summary of non-discriminatory engagement (see Section B), for projects submitted to Metro for consideration for 2019-21 regional flexible funding.

Project sponsors should keep referenced records on file in case of a dispute. Retained records do not have to be submitted unless requested by Metro.

Please forward questions regarding the public involvement checklist to regional flexible funds allocation project manager Dan Kaempff at <u>daniel.kaempff@oregonmetro.gov</u> or 503-813-7559.

1. Checklist

Transportation or service plan development

- At the beginning of the agency's transportation or service plan, a public engagement plan was developed to encourage broad-based, early and continuing for public involvement. *Retained records: public engagement plan and/or procedures*
- At the beginning of the agency's transportation or service plan, a jurisdiction-wide demographic analysis was completed to understand the location of communities of color, limited English proficient and low-income populations, disabled, seniors and youth in order to include them in engagement opportunities.

Retained records: summary of or maps illustrating jurisdiction-wide demographic analysis

- Y Public notices included a statement of non-discrimination (Metro can provide a sample). *Retained records: public engagement reports including/or dated copies of notices*
- Throughout the process, timely and accessible forums for public input were provided. **Retained records:** public engagement reports including/or descriptions of opportunities for ongoing engagement, descriptions of opportunities for input at key milestones, public meeting records, online or community survey results

Throughout the process, appropriate interested and affected groups were identified and contact information was maintained in order to share project information, updates were provided for key decision points, and opportunities to engage and comment were provided.
 Retained records: public engagement reports including/or list of interested and affected parties, dated copies of communications and notices sent, descriptions of efforts to engage the public, including strategies used to attract interest and obtain initial input, summary of key findings; for announcements sent by mail or email, documented number of persons/groups on mailing list

Throughout the process, focused efforts were made to engage underrepresented populations such as communities of color, limited English proficient and low-income populations, disabled, seniors and youth. Meetings or events were held in accessible locations with access to transit. Language assistance was provided, as needed, which may include translation of key materials, using a telephone language line service to respond to questions or take input in different languages and providing interpretation at meetings or events.

Retained records: public engagement reports including/or list of community organizations and/or diverse community members with whom coordination occurred; description of language assistance resources and how they were used, dated copies of communications and notices, copies of translated materials, summary of key findings

Public comments were considered throughout the process, and comments received on the staff recommendation were compiled, summarized and responded to, as appropriate.
 Retained records: public engagement reports or staff reports including/or summary of comments, key findings and final staff recommendation, including changes made to reflect public comments

Adequate notification was provided regarding final adoption of the plan or program, at least 15 days in advance of adoption, if feasible, and follow-up notice was distributed prior to the adoption to provide more detailed information. Notice included information and instructions for how to testify, if applicable.

Retained records: public engagement reports or final staff reports including/or dated copies of the notices; for announcements sent by mail or email document number of persons/groups on mailing list

Project development

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This part of the checklist is provided in past tense for applications for project implementation funding. Parenthetical notes in future tense are provided for applicants that have not completed project development to attest to ongoing and future activities.

- At the beginning of project development, a public engagement plan was (is budgeted to be) developed to encourage broad-based, early and continuing opportunity for public involvement. *Retained records: public engagement plan and/or procedures*
- At the beginning of project development, a demographic analysis was (is budgeted to be) completed for the area potentially affected by the project to understand the location of

communities of color, limited English proficient and low-income populations, disabled, seniors and youth in order to include them in engagement opportunities. *Retained records:* summary of or maps illustrating demographic analysis

- Throughout project development, project initiation and requests for input were (will be) sent at least 15 days in advance of the project start, engagement activity or input opportunity. *Retained records: public engagement reports including/or dated copies of notices*
- Throughout project development, public notices included (will include) a statement of nondiscrimination.
 Retained records: public engagement reports including/or dated copies of notices
- Throughout project development, timely and accessible forums for public input were (will be) provided.

Retained records: public engagement reports including/or descriptions of opportunities for ongoing engagement, descriptions of opportunities for input at key milestones, public meeting records, online or community survey results

A Throughout project development, appropriate interested and affected groups were (will be) identified and contact information was (will be) maintained in order to share project information, updates were (will be) provided for key decision points, and opportunities to engage and comment were (will be) provided.

Retained records: public engagement reports including/or list of interested and affected parties, dated copies of communications and notices sent, descriptions of efforts to engage the public, including strategies used to attract interest and obtain initial input, summary of key findings; for announcements sent by mail or email, documented number of persons/groups on mailing list

Throughout and with an analysis at the end of project development, consideration was (will be) given to the benefits and burdens of the project for people of color, people with limited English proficiency and people with low income compared to those for other residents, as identified through engagement activities.

Retained records: staff reports including/or description of identified populations and information about benefits and burdens of the project for them in relation to other residents;

- There was a finding of inequitable distribution of benefits and burdens for people of color, people with limited English proficiency and people with low income
 Submitted records: for a finding of inequitable distribution of benefits and burdens, attach analysis, finding and documentation justifying the project and showing there is no less discriminatory alternative.
- Public comments were (will be) considered throughout project development, and comments received on the staff recommendation were (will be) compiled, summarized and responded to, as appropriate.

Retained records: public engagement reports or staff reports including/or summary of comments, key findings and final staff recommendation, including changes made to reflect public comments

Adequate notification was (will be) provided regarding final adoption of the plan, at least 15 days in advance of adoption, if feasible, and follow-up notice was distributed prior to the adoption to provide more detailed information. Notice included (will include) information and instructions for how to testify, if applicable.

Retained records: public engagement reports or final staff reports including/or dated copies of the notices; for announcements sent by mail or email document number of persons/groups on mailing list

2. Summary of non-discriminatory engagement

Attach a summary (1-2 pages) of the key elements of the public engagement process, including outreach to communities of color, limited English and low-income populations, for this project or transportation or service plan.

3. Certification statement

<u>porthal Bureau or Transportation</u> (agency) certifies adherence to engagement and non-discrimination procedures developed to enhance public participation and comply with federal civil rights guidance.

As attested by:

(signature)

Art Pearce, Policy, planny and pro Jects (name and title) manager

(date)

APPENDIX C – ACTIVE TRANSPORTATION DESIGN GUIDELINES

The following checklist items are street design elements that are appropriate and desirable in regional mobility corridors. Trail projects should use the *Off-Street and Trail Facilities* checklist (item D) at the end of this list. All other projects should use items A – C.

Use of federal transportation funds on separated pathways are intended for projects that primarily serve a transportation function. Pathways for recreation are not eligible for federal transportation funding through the regional flexible fund process. Federal funds are available from other sources for recreational trails. To allow for comfortable mixing of persons on foot, bicycle and mobility devices at volumes expected to be a priority for funding in the metropolitan region, a 12-foot hard surface with shoulders is a base design width acceptable to FHWA Oregon. Exceptions to this width for limited segments is acceptable to respond to surrounding context, with widths less than 10-feet subject to a design exception process. Wider surfaces are desirable in high volume locations.

A. Pedestrian Project design elements – check all that apply

Design elements emphasize separating pedestrians from auto traffic with buffers, increasing the visibility of pedestrians, especially when crossing roadways, and make it easier and more comfortable for people walking to access destinations.

For every element checked describe existing conditions and proposed features:

Add sidewalks or improve vertical delineation of pedestrian right-of-way (i.e. missingcurb)

Existing on SW Dosch: No sidewalk, 2 motor vehicle through lanes, 1 right turn lane, 1 left turn lane in 60' AC pavement strip.

Proposed on SW Dosch: 36' AC pavement 2 motor vehicle through lanes and 1 left turn lane; 6" curb, 4' planter, 6' sidewalk on both sides.

Existing on SW Beaverton-Hillsdale Hwy: 5 motor vehicle travel lanes with buffered bike lanes, intermittent curb and curb tight sidewalk in 67' to 74' AC pavement (roadway width and right-of-way varies)

Proposed on SW Beaverton-Hillsdale Hwy: narrow 5 motor vehicle travel lanes and maintain existing westbound bike lanes. Convert portions of eastbound bike lane to shared bike/ped path where sidewalk is missing.

Westbound: construct 7.5' curb tight sidewalk to replace AC pavement where no sidewalk exists. **Eastbound:** in areas with no existing sidewalk, add 7.5' curb tight sidewalk along existing bike lane or construct 9' curb tight concrete multi-use path. Both options replace existing AC pavement, with the exception of a few short segments of sidewalk infill behind existing curb.

- □ Add sidewalk width and/or buffer for a total width of 17 feet (recommended), 10 feet minimum; buffer may be provided by parking <u>on streets with higher traffic volumes and speeds (over 35 mph, ADT over 6,000)</u>
- Add sidewalk width and/or buffer for a total width of 10 feet (recommended), 8 feetminimum on streets with lower traffic volumes and speeds (ADT less than 6,000 and 30 mph or less); Buffer may be provided by parking, protected bike lane, furnishing zone, street trees/planting strip
- Sidewalk clear zone of 6 feet or more
 Entire project area: clear zone on all constructed sidewalk will be at least 6' in width
- Remove obstructions from the primary pedestrian-way or add missing curb ramps Curb ramps will be added or improved, where necessary.
- Add pedestrian crossing at appropriate location
- □ Re-open closed crosswalks
- □ Raised pedestrian refuge median or raised crossing, required if project is on a roadway with 4 or more lanes

Reduced pedestrian crossing distance Evisiting on SW December (0) grossing distance	
Existing on SW Dosch: 60' crossing distance	C
Proposed on SW Dosch: reduce crossing distance to 36' through elimination of the right-turn land	for
people driving	
Existing on SW Beaverton-Hillsdale Hwy: approximately 60'	
Proposed on SW Beaverton-Hillsdale Hwy: reduce crossing distance to approximately 50' by	
narrowing motor vehicle lanes from 12' to 10' via concurrent, funded repaving project	
✓ Narrowed travel lanes	
Existing on SW Beaverton-Hillsdale Hwy: 12' motor vehicle lanes	
Proposed on SW Beaverton-Hillsdale Hwy: narrow motor vehicle lanes to 10' via concurrent, fun	led
repaving project	
Reduced corner radii (e.g. truck apron)	
Curb extensions	
Rectangular Rapid Flashing Beacon (RRFB) or pedestrian signal	
Lighting, especially at crosswalks – pedestrian scale (10-15 feet), preferably poised over	
sidewalk	
Existing on SW Dosch: LED lighting	
Proposed on SW Dosch: additional LED lighting at intersections	
Existing on SW Beaverton-Hillsdale Hwy: LED lighting on both sides	
Proposed on SW Beaverton-Hillsdale Hwy: additional LED lighting at intersections	
Add countdown heads at signals	
□ Shorten signal cycle lengths of 90 seconds or less – pedestrian friendly signal timing, lead	
pedestrian intervals	
Access management: minimize number and spacing of driveways	
Arterial traffic calming: Textured intersections, gateway treatments, raised medians, road diets,	
roundabouts	
U Wayfinding	
Benches	
Transit stop amenities or bus stop pads	
Add crosswalk at transit stop	
Pedestrian priority street treatment (e.g. woonerf) on very low traffic/low volumestreet	
B. Bicycle Projects design elements Desian elements emphasize separatina bicycle and auto traffic. increasina visibility of	

Design elements emphasize separating bicycle and auto traffic, increasing visibility of bicyclists, making it easier and more comfortable for people traveling by bicycle to access routes and destinations.

For every element checked describe existing conditions and proposed features:

✓ On streets with higher traffic volumes and speeds (over 35 mph, ADT over 6,000): Buffered bicycle lane, 6 foot bike lane, 3 foot buffer; Protected bikeway with physical separation (e.g. planters, parking); Raised bikeway

Existing on SW Beaverton-Hillsdale Hwy: buffered bike lanes **Proposed** on SW Beaverton-Hillsdale Hwy: convert portions of eastbound bike lane to raised, shared, 9' bike/ped path where sidewalk is missing

- □ Separated multi-use trail parallel to roadway
- □ Bike priority treatments at intersections and crossings (i.e. advance stop lines, bike boxes, signals, high-intensity activated crosswalk (HAWK) signals, user-activated signals
- □ Medians and crossing treatments
- □ Wayfinding, street markings
- Lighting at intersections

□ Bicycle boulevard treatment where ADT is less than 3,000 per day: Buffered bicycle lane, 6 foot bike lane, 3 foot buffer

C. Other Complete Street Features

For every element checked describe existing conditions and proposed features:

- □ Turning radius improvements (freight route only)
- Gateway feature
- Street trees
 Existing on SW Beaverton-Hillsdale Hwy: trees alongside roadways
 Proposed on SW Beaverton-Hillsdale Hwy: additional street trees
- □ ITS elements (i.e. signal timing and speed detection)

D. Off-Street and Trail Facilities

For every element checked describe existing conditions and proposed features:

- □ Minimum 12' trail width (plus 2' graded area each side)
- □ Always maintains minimum 5' separation when adjacent to street **or** never adjacent to street
- □ All on-street segments include improvements beyond bike lanes (item C, above) **or** no on-street segments
- □ All street crossings include an appropriate high-visibility crosswalktreatment
- □ All 4-lane street crossings include appropriate refuge island **or** no 4-lane street crossings
- □ Frequent access points (generally every ¼-mile)
- □ All crosswalks and underpasses include lighting
- **Trail lighting throughout**
- □ Trailhead improvements
- □ Rest areas with benches and wheelchair spaces
- □ Wayfinding or interpretive signage
- □ Signs regulating bike/pedestrian interaction (e.g. bikes yield to pedestrians)
- □ Trail priority at all local street/driveway crossing

Summary of non-discriminatory engagement

The City of Portland Bureau of Transportation (PBOT) recognizes that equity is realized when identity -such as race, ethnicity, gender, age, disability, national origin, sexual orientation- has no detrimental effect on the distribution of resources, opportunities, and outcomes for group members in society. PBOT is committed to the fair treatment and meaningful involvement of all people, regardless of income or identity, with respect to the development, implementation and enforcement of plans, policies and procedures in the course of the Bureau's work.

Fair treatment means that no group of people, including a racial, ethnic, or a socioeconomic group, should bear a disproportionate share of the negative environmental consequences resulting from industrial, municipal, and commercial operations or the execution of federal, state, local, and tribal programs and policies. Meaningful involvement means that: (1) potentially affected community residents have an appropriate opportunity to participate in decisions about a proposed activity that will affect their environment or health; (2) the public's contribution can influence the regulatory agency's decision; (3) the concerns of all participants involved will be considered in the decision making process; and (4) the decision makers seek out and facilitate the involvement of those potentially affected.

PBOT acknowledges historical injustice and context of local decision-making and supports the equitable distribution of the benefits and burdens of decisions to ensure that those most impacted from decisions have an opportunity to meaningfully participate. PBOT's commitment to non-discriminatory engagement includes supporting special efforts to engage minority, low-income, women, people with disabilities, people with Limited English Proficiency, senior and youth populations.

Non-discrimination policy statement It is the policy of the City of Portland that no person shall be denied the benefits of or be subjected to discrimination in any City program, service, or activity on the grounds of race, religion, color, national origin, English proficiency, sex, age, disability, religion, sexual orientation, gender identity, or source of income. The City of Portland also requires its contractors and grantees to comply with this policy. This is in accordance with Title VI of the Civil Rights Act of 1964 and subsequent federal nondiscrimination directives such as the Federal-Aid Highway Act of 1973, the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, the Civil Rights Restoration Act of 1987, Americans with Disabilities Act of 1990 (ADA), Executive Order 12898 (Environmental Justice), and Executive Order 13166 (Limited English Proficiency).

Implementation of non-discriminatory engagement PBOT's public engagement plans, policies and practices are guided by and in conformance with the City of Portland Title VI Civil Rights Program and Plan.

In June 2013 the City Council unanimously adopted the Civil Rights Title VI Plan which included the Environmental Justice Policy and Analysis Guidelines. The City of Portland also adopted, by Ordinance, the above Non Discrimination Policy Statement and the Non Discrimination Agreement for Certified Local Agencies. All of the above support implementation of the City of Portland's Civil Rights Code, located in Chapter 23.01 Civil Rights, which was adopted on October 3, 1991 by Ordinance Number 164709.

The City has developed extensive resources and best practices to ensure that the public is meaningfully involved in the decisions it makes. Such involvement is critical to the implementation of the Title VI program. The City Council adopted the following Public Involvement Principles in August, 2010, and is committed to applying them in planning, providing services and decision-making.

- *Partnership:* Community members have a right to be involved in decisions that affect them. Participants can influence decision-making and receive feedback on how their input was used. The public has the opportunity to recommend projects and issues for government consideration.
- *Early Involvement:* Public involvement is an integral part of issue and opportunity identification, concept development, design, and implementation of City policies, programs, and projects.
- *Building Relationships and Community Capacity:* Public involvement processes develop long-term, collaborative working relationships and learning opportunities with community partners and stakeholders.
- Inclusiveness and Equity: Public dialogue and decision-making processes identify, reach out to, and encourage participation of the community in its full diversity. Processes respect a range of values and interests and the knowledge of those involved. Historically excluded individuals and groups are included authentically in processes, activities, and decision- and policy-making. Impacts, including costs and benefits, are identified and distributed fairly.
- *Good Quality Process Design and Implementation:* Public involvement processes and techniques are well-designed to appropriately fit the scope, character, and impact of a policy or project. Processes adapt to changing needs and issues as they move forward.
- *Transparency:* Public decision-making processes are accessible, open, honest, and understandable. Members of the public receive the information they need to participate effectively.
- *Accountability:* City leaders and staff are accountable for ensuring meaningful public involvement in the work of city government.

Additional non-discriminatory policies The Portland Bureau of Transportation has in place a Transportation Title VI Civil Rights Program and Plan to support and ensure implementation of the above policy. The plan's elements that protect against discrimination apply to PBOT, its sub-recipients, contractors and consultants. The Transportation Title VI Civil Rights Program Plan and Ordinance are located on the Portland Bureau of Transportation website at the following web address: www.portlandonline.com/transportation/index.cfm?c=34752

The August 2016 Recommended Draft of the Transportation System Plan (TSP) Stage 2 Update includes specific acknowledgement of the goals and policies of *Chapter 2: Community Involvement* of the adopted City of Portland 2035 Comprehensive Plan. It also identifies 19 additional TSP *Section 3: Community Involvement Objectives*.

Inclusive Outreach and Engagement Strategies To insure participation of Title VI protected groups, and to address physical accessibility, language issues and other accommodations for Title VI protected groups. At a minimum, such strategies shall include:

- Providing for a variety of ways for community members to participate in public processes, including informal meetings/open house presentations and written and oral testimony;
- Ensuring that meeting locations and times are convenient and accessible to all, including low income, minority communities, people with Limited English Proficiency and people with disabilities;
- Seeking out and considering the views of minority and/or low income communities;
- Providing meeting facilities that are accessible to all and specifying in meeting notices that accommodations are available upon request;
- Ensuring equal access to City programs, services and activities by providing reasonable modifications and accommodations upon request; and
- Following all Oregon Public Records and Public Meetings Laws for relevant meetings.

ORDINANCE NO. 187954

*Authorize application to the Metro Regional Government for grants up to \$30 million for eight Active Transportation infrastructure or project development projects and two Regional Freight Investment Projects (Ordinance)

The City of Portland ordains:

Section 1. The Council finds:

- 1. Through the Regional Flexible Funds grant process, the Metro Regional Government is soliciting transportation infrastructure and project development proposals for federal transportation funding that will be available between 2019 and 2021.
- 2. There is approximately \$26 million available region-wide for Active Transportation/Complete Streets projects that support non-auto trips and ensure safe streets designed for all users.
- 3. There is approximately \$7 million available region-wide for Regional Freight Investments projects which support the development of the region's economy through investment in green infrastructure and key freight projects or programs.
- 4. Working with stakeholders, the Bureaus of Transportation and Parks and Recreation identified eight priority Active Transportation projects and two priority freight projects (Exhibit A) for application for Metro Regional Flexible Funds grants.
- 5. The projects identified will help to build critical transportation infrastructure and support multi-modal safety improvements throughout the City of Portland transportation system.
- 6. The projects listed on Exhibit A are consistent with the recently updated Transportation System Plan Project List. The grant application project list was developed with the help of the City's Bicycle, Pedestrian and Freight Advisory Committees and with additional feedback provided by the Transportation Justice Alliance.
- 7. Local match of at least 10.27% will be provided from Transportation and Parks System Development Charges.

NOW, THEREFORE, The Council directs:

- a. The Director of the Portland Bureau of Transportation is hereby authorized to make application to Metro for grants in the amount of up to \$30 million and to document City Council support in the required projects nomination letter.
- b. The Director of the Portland Bureau of Transportation is authorized to provide such information and assurances as are required for the grant period.
- c. The OMF Grants Office is authorized to perform all administrative matters in relation to the grant application, grant agreement or amendments, requests for reimbursement from the grantor, and to submit required online grant documents on the Commissioner-in-Charge's behalf.

Section 2. The Council declares that an emergency exists because the grant applications are due immediately; therefore, this ordinance shall be in full force and effect from and after its passage by the Council.

Passed by the Council: AUG 17 2016

Commissioner Steve Novick Prepared by: Mark Lear:CK Date Prepared: 08/02/16

Mary Hull Caballero

AUDITOR OF THE CITY OF PORTLAND

By Auran Parrow

Deputy

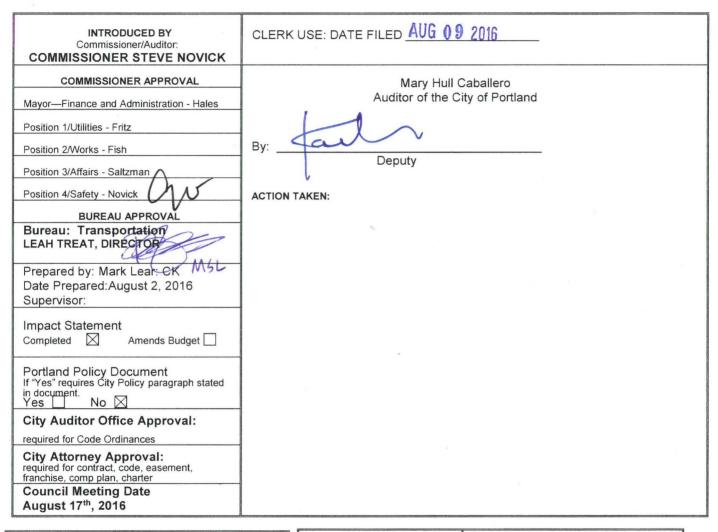
Page 2 of 2

Agenda No. ORDINANCE NO. 187954

:24

Title

*Authorize application to the Metro Regional Government for grants in the amount of up to \$30 million for eight Active Transportation infrastructure or project development projects and two Regional Freight Investment Projects. (Ordinance)



AGENDA	FOUR-FIFTHS AGENDA	COMMISSIONERS VOTED AS FOLLOWS:		
TIME CERTAIN Start time:			YEAS	NAYS
Total amount of time needed:	1. Fritz	1. Fritz	~	
(for presentation, testimony and discussion)	2. Fish	2. Fish		
	3. Saltzman	3. Saltzman	\checkmark	
REGULAR Total amount of time needed: <u>20 minutes</u> (for presentation, testimony and discussion)	4. Novick	4. Novick	\checkmark	
	Hales	Hales	\checkmark	

95**9**

Active Transportation Projects	Description	Maximum Grant
Name (Alphabetical)		Request
Brentwood-Darlington Safe Routes to School: Sidewalk Infill & Neighborhood Greenway	Brentwood-Darlington is a neighborhood with numerous sidewalk gaps and substandard bicycle facilities. This project would provide sidewalk infill on SE Duke St and SE Flavel St. from 52 nd Ave to 82 nd Ave; a neighborhood greenway on Knapp and Ogden from 32 nd to 87 th ; and a pedestrian/bicycle connection to the Springwater Corridor on 87 th Ave. south of Flavel.	\$3,500,000
Connected Cully, Phase 2: NE 72 nd Ave Pedestrian/Bicycle Parkway	Provide a high-quality pedestrian and bicycle parkway along NE 72 nd Ave through the heart of Cully. This project will connect Cully residents to nearby commercial areas and schools, provide multimodal accessibility to parks and green space in Cully and Roseway, and will connect to the future 70s Neighborhood Greenway to the south. The project would construct a multi-use path in the center of the heritage parkway median from Sandy to Prescott, separated pedestrian and bicycle pathways from Prescott to Sumner, and a shared pathway from Sumner to Killingsworth. The project will also include lighting, street trees, and place-making elements.	\$4,000,000
David Douglas Safe Routes to School: Sidewalk Infill on 117 th , 130 th , and Mill	This project would fill important sidewalk gaps on key walking routes in the David Douglas School District. The project would construct sidewalk infill on SE 130 th Ave from Stark to Division, SE Mill St from 130 th to 148 th , and SE 117 th Ave from Stark to Division.	\$3,500,000
Hillsdale Town Center Pedestrian Connections: Sidewalk Infill on SW Beaverton-Hillsdale Hwy	Provide better pedestrian facilities and access to Hillsdale Town Center, the Red Electric Trail, transit and schools by constructing sidewalk infill on SW Beaverton-Hillsdale Highway between Dosch and 18 th Avenue/Hillsdale Town Center and on Dosch from Beaverton-Hillsdale Highway to Flower.	\$3,500,000
Jade & Montavilla Connected Centers Project	Construct multi-modal improvements on key pedestrian and bicycle routes within and connecting to the Jade District and Montavilla Neighborhood Centers. Several improvements have been identified through the Portland Local Action Plan for the Powell-Division Transit and Development Project and additional improvements will be identified through coordinated planning efforts by ODOT, PBOT and BPS along the 82 nd Ave. Corridor.	\$4,000,000

NE Halsey Safety & Access to Transit	NE Halsey is a High Crash Network street and a street TriMet has identified for more frequent future transit service. This project would focus on the 82 nd Ave MAX Station Area and would provide signal improvements, intersection redesigns, bus stop improvements and high-priority crossings on NE Halsey between 47 th and 92 nd , a bikeway on Halsey from 65 th to 92 nd , and multi-use path connection from the 82 nd Ave. MAX station to the future I-205 undercrossing.	\$3,000,000
N. Portland Greenway Trail: Baltimore Woods Segment	This project will provide better active transportation connections to nature and also to Rivergate jobs by construct 1.8 miles of high quality bikeway improvements in the St. Johns neighborhood to complete a trail gap between Pier Park and Willamette Greenway. The improvements will include bicycle lanes, sidewalks, neighborhood greenways and off-street pathways.	\$3,000,000
Outer Stark and Outer Halsey Complete Streets Project Development	Outer Stark and Outer Halsey are both High Crash Network streets that need to be fundamentally redesigned as Complete Streets to achieve Vision Zero goals and allow for multimodal accessibility to transit and commercial areas such as Gateway and Rosewood. This project development grant will be used to help determine the most effective infrastructure improvements and roadway designs to increase safety and provide transit, schools, services and employment access improvements to community members.	\$300,000

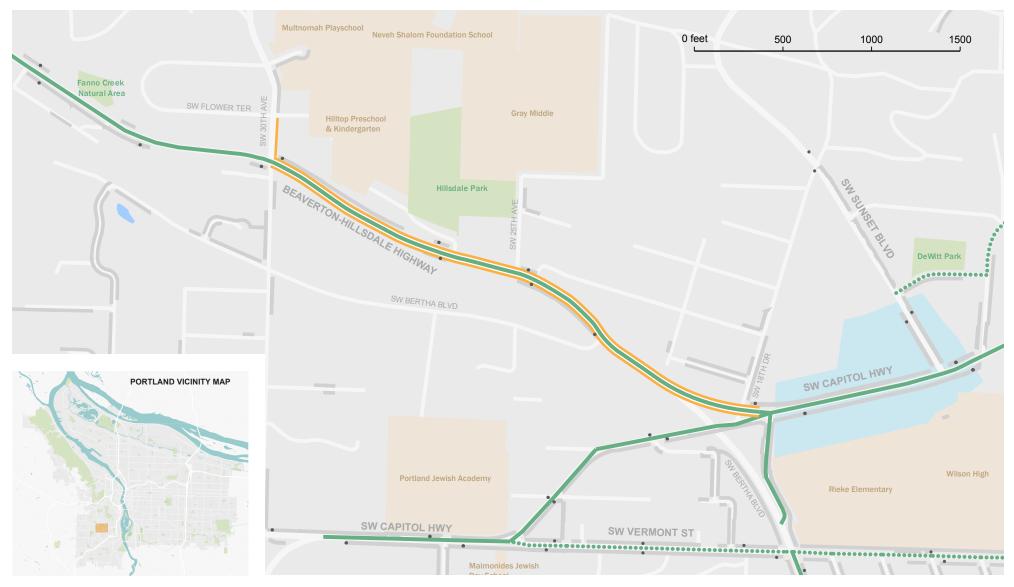
Regional Freight Investment Projects

Name (Alphabetical)	Description	Maximum Grant Request
Central Eastside Circulation and Safety Enhancement Project	Drawing on themes identified in the Central City 2035 Southeast Quadrant Plan, improve freight movement through the Central Eastside and reduce mode conflict. ITS improvements would include new traffic signals at MLK and Washington, Grand and Washington, 16 th and Irving and additional locations and protected left turns at Stark and Washington and Clay and Mill.	\$3,500,000
Columbia Blvd. ITS for Freight	The traffic signals throughout the Columbia Blvd. corridor are neither interconnected nor timed for the heavy concentration of truck activity that is present in the corridor. The individual performance characteristics of freight vehicles is not accounted for in current signal operations. As a result, travel through the corridor is unpredictable, negatively affecting the companies that depend on delivery as a part of their business. Smart Technologies and advanced communications infrastructure will allow active management of the corridor to improve conditions for freight and enable safer and more efficient progression of truck traffic.	\$750,000

BEAVERTON HILLSDALE HIGHWAY SIDEWALK PROJECT

Project elements





Project Estimate Report: Development Phase

for

SW Beaverton-Hillsdale Hwy: 18th Drive to Dosch Road Sidewalk Infill

August 18, 2016

- Location: SW Dosch Road from Beaverton-Hillsdale Hwy. to 200' north SW Beaverton-Hillsdale Hwy. from SW Dosch Rd. to SW 18th Drive
- **Description:** Construct 200' (total 400') of sidewalk on each side of SW Dosch Road. Construct 1750' (total 3500') of infill sidewalk or concrete path on each side SW B-H Hwy.

Current Cross-Section:

- Dosch Rd.: 2 through lanes, 1 right turn lane, 1 left turn lane in 60' AC pavement strip, right-of-way width varies
- 5 travel lanes with intermittent bike lanes, curb and curb tight sidewalk in 67' B-H Hwy.: to 74' AC pavement, right-of-way width varies

Proposed Cross-Section:

- Dosch Rd.: 39' AC pavement with 2 through lanes and 1 left turn lane; curb, 4' planter and 6' sidewalk on both sides
- Retain 5 travel lanes and existing bike lanes and sidewalks. B-H Hwy.: N. Side - Construct 7.5' curb tight sidewalk to replace AC pavement where no sidewalk exists. S. Side – In areas with no existing sidewalk, add 7.5' curb tight sidewalk along existing bike lane or construct 9' curb tight concrete multi-use path. Both options replace existing AC pavement.

Issues: (describe issues, or indicate "none identified")

- Water none identified, possible relocations of valves and adjacent mains •
- BES (storm, sanitary, water-guality facilities) Pollution reduction needed. Install water quality planters along SW Dosch Rd.
- Signals and Street Lighting none.
- Environmental and Zoning (OPDR; Army Corp of Engineers; Division of State Lands) none •
- Contaminated Media none identified
- Right-of-Way Needs none.
- Railroads (BNSF; UPRR; PTTR) none
- Parks (landscaping and irrigation) none
- Other Jurisdictions (counties, schools, Port, ODOT, Tri-Met) ODOT, Trimet

Cost Estimate:

11	rtd. and N. Side of D-ITTIWy. Doscit rtd. to	
	Construction	\$713,000
	Project Management (5%)	\$ 28,000
	Design Engineering (25%)	\$141,000
	Construction Management (15%)	\$ 84,000
	Right-of-Way (Cost + 20% Contingency)	0
	Overhead (79.27%)	\$ 201,000
	Estimate Contingency	\$500,000

Dosch Rd. and N. Side of B-H Hwy.; Dosch Rd. to 18th Dr.

Total Project Estimate:

\$1,667,000

S. Side of B-H Hwy.: Dosch Rd. to 25th Ave.

Construction	\$394,000
Project Management (5%)	\$ 16,000
Design Engineering (25%)	\$ 80,000
Construction Management (15%)	\$ 48,000
Right-of-Way (Cost + 20% Contingency)	0
Overhead (79.27%)	\$114,000
Estimate Contingency	\$279,000

Total Project Estimate:

\$931,000

S. Side of B-H Hwy.: 25th Ave. to 18th Dr.

Construction	\$196,000
Project Management (5%)	\$ 7,000
Design Engineering (25%)	\$ 37,000
Construction Management (15%)	\$ 22,000
Right-of-Way (Cost + 20% Contingency)	0
Overhead (79.27%)	\$ 52,000
Estimate Contingency	\$136,000

Total Project Estimate: \$450,000

Total

Construction	\$1,303,000
Project Management (5%)	\$ 51,000
Design Engineering (25%)	\$ 258,000
Construction Management (15%)	\$ 154,000
Right-of-Way (Cost + 20% Contingency)	0
Overhead (79.27%)	\$ 367,000
Estimate Contingency	\$ 915,000

Total Project Estimate: \$3,048,000

Estimating Assumptions:

- Existing conditions per GIS, site visit and photos where available.
- All sidewalk and bike/pedestrian path construction will replace existing AC pavement. Striping on Beaverton-Hillsdale Hwy. will be done as part of a separate paving project (with the exception of bike/pedestrian stencils for concrete paths). Wendy Cawley designed the proposed striping on Beaverton-Hillsdale Hwy. to allow for construction of sidewalk or bike/pedestrian path within the edges of existing pavement.
- The BES estimate for water quality facilities along Dosch Rd. was provided by Tim Knighton. The stormwater off-site management fee is not required for impervious area proposed along Beaverton-Hillsdale Highway.
- No right-of-way acquisition is required.
- No walls are required.
- Estimate includes 25' spacing for street trees in planting strip along Dosch Rd. only. No trees along Beaverton-Hillsdale Hwy. due to lack of width and many existing trees.
- Street lighting is adequate.
- Bid item construction contingency is 3½ % due to federal funding.
- Assume construction within 5 years.
- Level of confidence for estimate is low.

Review & Approval:

Reviewed by Engineer of Record

Reviewed and Approved by Engineering Services Division Manager

Attachments:

- Detailed estimate spreadsheet
- Site map

8.19.1

Date

Regional Flexible Funds Active Transportation Candidate Project (details subject to change)

Hillsdale Town Center Pedestrian Connections: Sidewalk Infill on SW Beaverton-Hillsdale Hwy

Project Description: Construct sidewalk infill on SW Beaverton-Hillsdale Highway between Dosch and 18th Avenue/Hillsdale Town Center and on Dosch from Beaverton-Hillsdale Highway to Flower (1 block.)

Project Cost Estimate: \$3,646,000 Grant Request Estimate: \$3,272,000

Purpose and Need for Project: There is a lack of pedestrian facilities within the Hillsdale Pedestrian District leading to Hillsdale Town Center and nearby Robert Gray Middle School and Lincoln High School. Currently, pedestrians must walk in the bike lane along Beaverton -Hillsdale Highway on segments where the posted speed is 40 MPH. This project would fill important sidewalk gaps, providing pedestrian access to transit and schools, better access to Hillsdale Town Center and the Red Electric Trail, and provide separation between bicyclists and pedestrians on Beaverton-Hillsdale Highway.

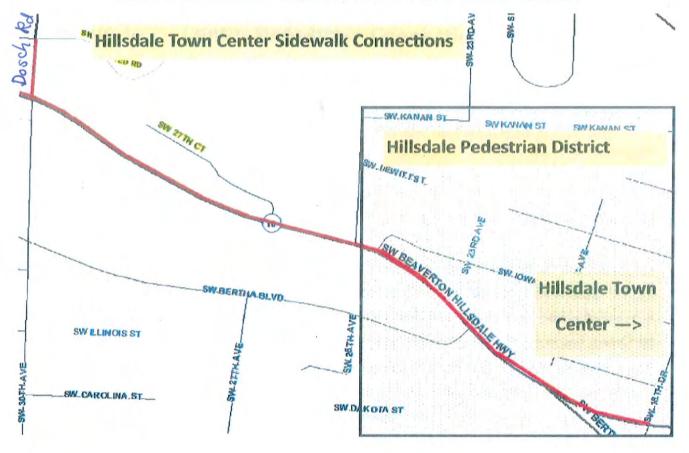
Why is this a priority? Project scores highly on safety, equity, and health criteria. High safety score because the project will add sidewalks to a High Crash Corridor which is classified as a Major City Traffic Street and is used for school routes with school crossings. High equity score because of concentrations of low income housing along Beaverton-Hillsdale Highway. High health score because project addresses an area very deficient in active transportation facilities.

Readiness Factors: This project is well scoped and has a planning level cost estimate. This project has high community and political support.

Meets RFF Criteria:

- Benefits underserved communities immediately adjacent to the corridor that rely on active transportation
- Improves safety on a High Crash Corridor and removes conflicts between modes
- Improves access to and from priority destinations, including multiple schools and the Hillsdale Town Center

Regional Flexible Funds Active Transportation Candidate Project (details subject to change)





6/01/2016

CITY OF PORTLAND, OREGON BUREAU OF TRANSPORTATION PRELIMINARY ENGINEER'S ESTIMATE

SW Beaverton-Hillsdale Hwy from 18th Dr. to Dosch Rd. Sidewalk Infill, N. Side Dat

Date: August 18, 2016

By: RB

PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF B-H Hwy FROM 18th TO Dosch AND OF SW Dosch FROM B-H Hwy. TO 200' North

VALUES IN BLUE ARE PERCENT OF CONTRACT.

####### BID ITEMS ########

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL AMOUNT
1	MOBILIZATION	LS	1.00	the second se	\$	46,615,18
2	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	LS	1.00		\$	13,984.55
3	TEMPORARY SIGNS	SQFT	162.00		\$	3,240.00
	TEMPORARY BARRICADES, TYPE II	EACH	0.00	and service in the service of the se	\$	-
	TEMPORARY BARRICADES, TYPE III	EACH	0.00		\$	-
	TEMPORARY CONCRETE BARRIER, REFLECTORIZED	FOOT	0.00		\$	-
	MOVING TEMPORARY CONCRETE BARRIER	FOOT	0.00		\$	
	TEMPORARY IMPACT ATTENUATOR	EACH	0.00		S	
1000	TEMPORARY PEDESTRIAN WALKWAYS	FOOT	0.00		\$	
	TEMPORARY PLASTIC DRUMS	EACH	10.00		\$	520.00
Contract of the	TEMPORARY REFLECTIVE PAVEMENT MARKERS	EACH	0.00		\$	-
	TEMPORARY FLEXIBLE PAVEMENT MARKERS	EACH	0.00		\$	
and served in the	TEMPORARY STRIPING	FOOT	0.00		\$	
Contract In	STRIPE REMOVAL	FOOT	0.00		ŝ	2
and the second s	STRIPING & STRIPE REMOVAL MOBILIZATION	EACH	0.00	a second s	\$	
and the second s	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	0.00		φ \$	
and includes	SEQUENTIAL ARROW SIGNS	EACH	0.00			
	PORTABLE CHANGEABLE MESSAGE SIGNS				\$	4 220 00
	FLAGGERS	EACH	1.00		\$	4,330.00
	TRAFFIC CONTROL SUPERVISOR		1,000.00		\$	48,500.00
	TEMPORARY TYPE ORANGE PLASTIC MESH FENCE	HOUR FOOT	0.00	and the second sec	\$	
Company of the	TEMPORARY CL-6R CHAIN LINK FENCE			and the second s	\$	-
	EROSION CONTROL	FOOT	0.00		\$	4 004 50
		LS	1.00		\$	4,661.52
	PLASTIC SHEETING	SQFT	0.00	and the second s	\$	
in the state of the	MATTING	SQFT	0.00	the second second second second is	\$	· · ·
	CONSTRUCTION ENTRANCES	EACH	0.00		\$	
	SEDIMENT FENCE, SUPPORTED	FOOT	0.00		\$	
	SEDIMENT FENCE, UNSUPPORTED	FOOT	400.00		\$	1,000.00
Comments I C	INLET PROTECTION	EACH	16.00		\$	1,408.00
	POLLUTION CONTROL PLAN	LS	1.00		\$	466.15
	CONTAMINATED MEDIA DISPOSAL	CUYD	0.00		\$	-
	TRUCK LINERS	EACH	0.00		\$	-
144 (A) P	HASP/CMDP WORKPLANS	LS	0.00		\$	
1. A	REMOVAL OF PIPES	FOOT	0.00		\$	-
(0-3y) + 3y - 1	REMOVAL OF CURBS	FOOT	0.00		\$	+
1000	REMOVAL OF WALKS AND DRIVEWAYS	SQYD	0.00		\$	-
a management of the	REMOVAL OF SURFACINGS	SQYD	0.00		\$	-
	REMOVAL OF INLETS	EACH	0.00		\$	-
	REMOVAL OF MANHOLES	EACH	0.00		\$	-
	REMOVAL OF RAILROAD TRACK AND TIES	FOOT	0.00		\$	
	SALVAGING AND STOCKPILING OF COBBLESTONES	SQYD	0.00		\$	-
	REMOVE AND REINSTALL HORSE RINGS	EACH	0.00		\$	14
	REMOVAL OF STRUCTURES & OBSTRUCTIONS	LS	1.00	\$ 18,646.07	\$	18,646.07
44 1	REMOVAL OF FENCES	FOOT	0.00	\$ 3.06	\$	/
10.000	CLEARING AND GRUBBING	LS	1.00		\$	12,119.95
	TREE ROOT REMOVAL	HOUR	0.00	\$ 178.00	\$	
47	TREE TRIMMING	HOUR	0.00		\$	-
48 [DITCH EXCAVATION	CUYD	0.00	\$ 18.00	\$	100 C (100 C)
49 (GENERAL EXCAVATION	CUYD	316.00		\$	15,484.00
50 \$	SURCHARGE EXCAVATION	CUYD	0.00		\$	
Designed in the	EMBANKMENT IN PLACE	CUYD	0.00			2

CITY OF PORTLAND, OREGON BUREAU OF TRANSPORTATION PRELIMINARY ENGINEER'S ESTIMATE

SW Beaverton-Hillsdale Hwy from 18th Dr. to Dosch Rd. Sidewalk Infill, N. Side

Date: August 18, 2016

By: RB

PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF B-H Hwy FROM 18th TO Dosch AND OF SW Dosch FROM B-H Hwy. TO 200' North

VALUES IN BLUE ARE PERCENT OF CONTRACT.

####### BID ITEMS ########

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL
	MOBILIZATION	LS	1.00		\$	46,615.18
1.0	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	LS	1.00	and the second sec	\$	13,984.55
	TEMPORARY SIGNS	SQFT	162.00	Name and Address of the Address of t	S	3,240.00
	TEMPORARY BARRICADES, TYPE II	EACH	0.00		¢	5,240.00
	TEMPORARY BARRICADES, TYPE III	EACH	0.00		\$	-
	TEMPORARY CONCRETE BARRIER, REFLECTORIZED	FOOT	0.00		¢	
1.00	MOVING TEMPORARY CONCRETE BARRIER	FOOT	0.00		\$	
	TEMPORARY IMPACT ATTENUATOR	EACH	0.00		P C	
121	TEMPORARY PEDESTRIAN WALKWAYS	FOOT	0.00	\$ 65.00	ф Ф	
	TEMPORARY PLASTIC DRUMS	EACH	10.00		\$	
	TEMPORARY REFLECTIVE PAVEMENT MARKERS	EACH	0.00		\$	520.00
	TEMPORARY FLEXIBLE PAVEMENT MARKERS	EACH	0.00	1	ф ф	-
	TEMPORARY STRIPING	FOOT			\$	
	STRIPE REMOVAL		0.00		\$	
and the second s	STRIFE REMOVAL STRIPING & STRIPE REMOVAL MOBILIZATION	FOOT	0.00		¢	
the second se	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	0.00		\$	
and the second se	SEQUENTIAL ARROW SIGNS	EACH	0.00		¢	
1000		EACH	0.00		\$	4 000 00
	PORTABLE CHANGEABLE MESSAGE SIGNS FLAGGERS	EACH	1.00		\$	4,330.00
- C E P		HOUR	1,000.00		\$	48,500.00
	TRAFFIC CONTROL SUPERVISOR	HOUR	0.00		\$	-
1000	TEMPORARY TYPE ORANGE PLASTIC MESH FENCE	FOOT	0.00	A CONTRACTOR OF A CONTRACTOR O	\$	-
	TEMPORARY CL-6R CHAIN LINK FENCE	FOOT	0.00	statement and shares and shares and shares and shares and	\$	1 00 1 00
	EROSION CONTROL	LS	1.00	A CONTRACTOR OF A CONTRACTOR O	\$	4,661.52
CONTRACT D	PLASTIC SHEETING	SQFT	0.00	\$ 0.20	\$	
	MATTING	SQFT	0.00		\$	-
- Indiana and a	CONSTRUCTION ENTRANCES	EACH	0.00	and the second se	\$	× .
	SEDIMENT FENCE, SUPPORTED	FOOT	0.00		\$	Section Section
	SEDIMENT FENCE, UNSUPPORTED	FOOT	400.00		\$	1,000.00
	INLET PROTECTION	EACH	16.00		\$	1,408.00
	POLLUTION CONTROL PLAN	LS	1.00	and a second sec	\$	466.15
and the last	CONTAMINATED MEDIA DISPOSAL	CUYD	0.00		\$	-
Statistics in the	TRUCK LINERS	EACH	0.00		\$	-
CALLS IN	HASP/CMDP WORKPLANS	LS	0.00		\$	
10.1 ml 1 V	REMOVAL OF PIPES	FOOT	0.00	\$ 25.30	\$	A.
100000-000	REMOVAL OF CURBS	FOOT	0.00		\$	
1.1.6	REMOVAL OF WALKS AND DRIVEWAYS	SQYD	0.00	\$ 13.90	\$	-
	REMOVAL OF SURFACINGS	SQYD	· 0.00	\$ 8.20	\$	-
38	REMOVAL OF INLETS	EACH	0.00		\$	-
39	REMOVAL OF MANHOLES	EACH	0.00	\$ 1,050.00	\$	-
40 I	REMOVAL OF RAILROAD TRACK AND TIES	FOOT	0.00	\$ 58.70	\$	-
41 \$	SALVAGING AND STOCKPILING OF COBBLESTONES	SQYD	0.00	\$ 20.90	\$	
42 F	REMOVE AND REINSTALL HORSE RINGS	EACH	0.00	\$ 227.00	\$	-
43 I	REMOVAL OF STRUCTURES & OBSTRUCTIONS	LS	1.00		\$	18,646.07
44 F	REMOVAL OF FENCES	FOOT	0.00	\$ 3.06	\$	
45 (CLEARING AND GRUBBING	LS	1.00		\$	12,119.95
46	TREE ROOT REMOVAL	HOUR	0.00		\$	
	TREE TRIMMING	HOUR	0.00	and the second s	\$	-
1000	DITCH EXCAVATION	CUYD	0.00		S	
Conditional data	GENERAL EXCAVATION	CUYD	316.00		\$	15,484.00
0 a 1 a 1 a 1	SURCHARGE EXCAVATION	CUYD	0.00		S	
746.43	EMBANKMENT IN PLACE	CUYD	0.00		\$	

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL AMOUNT
	SETTLEMENT PLATE	EACH	0.00	and the second se	\$	
	12 INCH SUBGRADE STABILIZATION	SQYD	0.00		\$	-
	AGGREGATE DITCH LINING	SQYD	0.00		S	2
	WATERING	MGAL	0.00	March March 199	\$	
	DRAINAGE GEOTEXTILE, TYPE 2	SQYD	0.00		\$	
57	EMBANKMENT GEOTEXTILE	SQYD	0.00		\$	
58	SUBGRADE GEOTEXTILE	SQYD	0.00	\$ 1.25	\$	÷
59	GEOGRID	SQYD	0.00	\$ 2.60	\$	
60	GRANULAR DRAINAGE BLANKET	TON	0.00		\$	•
61	FILTER BLANKET	SQYD	0.00	\$ 15.00	\$	
62	LOOSE RIPRAP, CLASS 50	CUYD	0.00	\$ 35.10	\$	-
63	LOOSE RIPRAP, CLASS 100	CUYD	0.00	\$ 59.70	\$	-
64	WIRE MESH SLOPE PROTECTION	SQFT	0.00	\$ 5.60	\$	-
65	VIDEO INSPECTION OF SEWERS, MAINLINE	FOOT	0.00	\$ 3.30	\$	-
66	TRENCH EXCAVATION, COMMON	CUYD	0.00	\$ 16.70	\$	
67	EXPLORATORY EXCAVATION	CUYD	0.00	\$ 51.60	\$	-
68	POTHOLE EXCAVATION	EACH	0.00	\$ 548.00	\$	
69	TRENCH FOUNDATION STABILIZATION	CUYD	0.00	\$ 61.00	\$	
70	TRENCH BACKFILL, CLASS B	CUYD	0.00	\$ 33.00	\$	-
	STORMWATER CURB EXTENSIONS	SQFT		\$ 23.80	\$	
72	STORMWATER PLANTERS	SQFT	733.00	\$ 38.10	\$	27,927.30
73	STORMWATER SWALES	SQFT	0.00		\$	
	3 INCH DRAIN PIPE	FOOT	0.00	\$ 17.00	\$	
	SUBSURFACE DRAIN OUTLETS	EACH	0.00	\$ 387.00	\$	
	12 INCH PIPE, PVC AWWA C900, CI 150, BEDDING TYPE: D, COMPLETE	FOOT	0.00	\$ 130.00	\$	-
	6 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D	FOOT		\$ 80.00	\$	-
- Canadagan	8 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D	FOOT	0.00		\$	-
	10 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE	FOOT	50.00		\$	5,500.00
	12 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE	FOOT	and a second sec	\$ 120.00	\$	-
	18 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D	FOOT	0.00		\$	
	10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE	FOOT	10 CONT 00 CONT		\$	
	12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE	FOOT		\$ 120.00	\$	
and the local of	8 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	FOOT	0.00		\$	-
	10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	FOOT	0.00	\$ 110.00	\$	÷
	12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	FOOT	14,990,077,078	\$ 120.00	\$	+
	CONCRETE CLOSURE COLLAR	EACH	0.00		\$	4
88	CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH	EACH	0.00	\$ 4,400.00	\$	4
	CONCRETE MANHOLES, 48 INCH, DEEPER THAN 8 FT	FOOT	0.00		\$	4
90	CONCRETE MANHOLES, SANITARY SEWER	EACH	0.00	\$ 3,460.00	\$	
91	CONCRETE MANHOLES, WATER QUALITY	EACH	0.00	\$ 12,410.00	\$	-
	CONCRETE MANHOLES, SEDIMENTATION	EACH	0.00	\$ 5,610.00	\$	-
93	CONCRETE MANHOLES, SUMP	EACH	0.00	\$ 13,000.00	\$	-
	SUMP CAPACITY TEST	EACH	0.00	\$ 1,690.00	\$	-
95	CONCRETE INLETS, TYPE CG-1	EACH	0.00	\$ 1,700.00	\$	-
96	CONCRETE INLETS, TYPE CG-2	EACH	5.00	\$ 1,900.00	\$	9,500.00
97	CONCRETE INLETS, TYPE CG-3	EACH	0.00	\$ 2,000.00	\$	-
98	CONCRETE INLETS, TYPE D	EACH	0.00	\$ 1,750.00	\$	
99	CONCRETE INLETS, TYPE G-1	EACH	0.00	\$ 1,940.00	\$	1
00	CONCRETE INLETS, TYPE G-2	EACH	0.00	\$ 1,800.00	\$	
101	CONCRETE INLETS, TYPE G-2MA	EACH	0.00	\$ 1,900.00	\$	
02	CONCRETE INLETS, DEEPER THAN 4 FT	FOOT	0.00	\$ 300.00	\$	
103	CONCRETE INLETS, TYPE METAL	EACH	0.00	\$ 500.00	\$	
104	CONCRETE INLETS, TYPE METAL, MODIFIED	EACH	0.00	\$ 550.00	\$	
	CONCRETE INLETS, TYPE CHANNEL & GRATE	EACH	0.00	\$ 2,290.00	\$	Sec.
114140	CONCRETE INLETS, TYPE CONCRETE	EACH	10.00	\$ 135.00	\$	1,350.00
107	CONCRETE INLETS, TYPE BEEHIVE	EACH	2.00	\$ 1,500.00	\$	3,000.00
1443.1	CATCH BASINS, METAL SUMP	EACH	0.00	\$ 1,710.00	\$	-
V7-50	ACCESS DOORS	EACH	0.00		\$	-
1.5 1.5	DRAINAGE CURBS	FOOT	0.00	\$ 19.10	\$	-
10000	ADJUSTING BOXES	EACH	0.00		\$	÷
	CONNECTION TO EXISTING STRUCTURES	EACH	0.00		\$	(÷
	ADJUSTING INLETS	EACH	0.00	proc. In the local sector of the local sector	\$	÷.
	FILLING ABANDON STRUCTURES	EACH	0.00	The second se	\$	
	MINOR ADJUSTMENT OF MANHOLES	EACH	7.00	State and an and the state of t	\$	4,494.00
-1.5	MAJOR ADJUSTMENT OF MANHOLES	EACH	0.00		\$	and a course

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL	UNIT PRICE	TOTAL AMOUNT
and the second s	MANHOLES OVER EXISTING SEWERS	EACH	0.00	and the second se	\$
	TRENCH RESURFACING	SQYD	0.00		\$
and the second second	TEMPORARY TRENCH RESURFACING	SQYD	0.00		\$
1111	SHORING, CRIBBING AND COFFERDAMS	LS	0.00		\$
and the second second	STRUCTURE EXCAVATION	CUYD	0.00		\$ -
22	GRANULAR WALL BACKFILL	CUYD	0.00	\$ 63.90	\$ -
123	GRANULAR STRUCTURAL BACKFILL	CUYD	0.00	\$ 40.60	\$
124	REINFORCEMENT	LS*	0.00	\$ 0.86	\$ -
125	CONCRETE BRIDGE	SQFT	0.00	\$ 250.00	\$ ÷
126	BIKE OASIS	EACH	0.00	\$ 32,400.00	\$ -
127	3 INCH ELECTRICAL CONDUIT	FOOT	0.00	\$ 9.05	\$
128	ASPHALTIC PLUG JOINT SEALS	LS	0.00	\$ 7,470.00	\$ -
129	ASPHALTIC PLUG JOINT SEAL MATERIAL	CUYD	0.00	and a second sec	\$
130	CONCRETE BRIDGE RAIL WITH ORNAMENTAL PROTECTIVE SCREENING	LS*	0.00		\$ · · · ·
131	RETAINING WALL, CAST-IN-PLACE CONCRETE	SQFT	0.00		\$
132	RETAINING WALL, GABION	SQFT	0.00		\$ -
133	RETAINING WALL, PREFABRICATED MODULAR	SQFT	0.00		\$
	RETAINING WALL, CONVENTIONAL SEGMENTAL	SQFT	0.00	\$ 43.30	\$
135	RETAINING WALL, MSE	SQFT	0.00	and the second sec	\$
64 C 1 C 1	SOUND WALLS	SQFT	0.00		\$
137	CONCRETE ARCH CULVERT	FOOT	0.00		\$
	CONCRETE SLOPE PAVING	SQFT	0.00		\$ -
	COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP	SQYD	0.00	de la companya de la	\$ -
	COLD PLANE PAVEMENT REMOVAL, 3 INCH DEEP	SQYD	0.00		\$
141	COLD PLANE PAVEMENT REMOVAL, 4 INCH DEEP	SQYD	0.00		\$ ÷
42	COLD PLANE PAVEMENT REMOVAL, 5 INCH DEEP	SQYD	0.00	\$ 3.42	\$ ÷
143	AGGREGATE BASE	TON	0.00		\$ ÷.
144	AGGREGATE BASE, 4 INCH THICK	SQYD	0.00	\$ 7.15	\$ ÷
145	AGGREGATE BASE, 6 INCH THICK	SQYD	0.00	\$ 9.80	\$
146	AGGREGATE BASE, 8 INCH THICK	SQYD	0.00		\$ -
47	LEVEL 1, 1/2 INCH DENSE, MWMAC MIXTURE, IN TEMPORARY	TON	0.00		\$ -
148	LEVEL 2, 1/2 INCH DENSE, MWMAC MIXTURE	TON	and the second se	\$ 89.50	\$ -
149	LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE	TON	0.00		\$
50	LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE, IN LEVELING	TON	0.00	a second and a second	\$ •
	LEVEL 3, 3/4 INCH ATPB, MWMAC MIXTURE	TON	0.00		\$ -
	CRACK SEALING	FOOT	0.00	long the second second second second	\$ medine
	13 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SQYD	245.00		\$ 43,855.00
and the second second	16 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SQYD	0.00	\$ 112.00	\$ -
0.0.0.1	EXTRA FOR ASPHALT APPROACHES	EACH	0.00	10 to the second s	\$ 5
	ASPHALT CONNECTIONS	SQFT	0.00	1.2.1	\$ -
	ASPHALT SPEED BUMPS	EACH	0.00		\$
	PLAIN CONCRETE PAVEMENT, UNDOWELLED, 6 INCH THICK	SQYD	0.00		\$ -
	PLAIN CONCRETE PAVEMENT, UNDOWELLED, 8 INCH THICK	SQYD	0.00		\$
	PLAIN CONCRETE PAVEMENT, UNDOWELLED, 10 INCH THICK	SQYD	0.00		\$
	PLAIN CONCRETE PAVEMENT, UNDOWELLED, 12 INCH THICK	SQYD	0.00		\$
1000	PLAIN PERVIOUS CONCRETE PAVEMENT, UNDOWELLED, 10-INCH THICK	SQYD	0.00	and a second s	\$
	CONCRETE CURBS, CURB AND GUTTER	FOOT	0.00		\$
	CONCRETE CURBS, STANDARD CURB	FOOT	217.00		\$ 5,533.50
	CONCRETE CURB, MOUNTABLE CURB	FOOT	0.00		\$
	CONCRETE CURBS, THICKENED CURB AND GUTTER	FOOT	183.00		\$ 6,899.10
	CONCRETE ISLANDS	SQFT	0.00		\$
	CONCRETE DRIVEWAYS	SQFT	630.00		\$ 5,292.00
1.1.1.1	CONCRETE DRIVEWAYS, REINFORCED	SQFT	0.00		\$
16-16-16	CONCRETE WALKS	SQFT	2,400.00		\$ 17,760.00
0.01	MONOLITHIC CURB AND SIDEWALKS	SQFT	12,908.00		\$ 232,344.00
Charles M.	MONOLITHIC CURB GUTTER AND SIDEWALKS	SQFT	0.00		\$
0.2011/011	CONCRETE VALLEY GUTTER	FOOT	0.00	the second se	\$
10.00	6 INCH CONCRETE SURFACING	SQFT	0.00		\$ -
2010/01/01	CONCRETE STAIRS	CUYD	0.00	States and the second states and the second	\$ 141
226.20	CONCRETE DRIVEWAY CONNECTIONS	SQFT	0.00		\$ di di d
25.458.55	CONCRETE SIDEWALK RAMPS	EACH	0.00	ten and the second s	\$ 7
21112	CONCRETE BUS SHELTER PADS	EACH	0.00		\$
And and a second second	DETECTABLE WARNING SURFACE	SQFT	0.00		\$
	MONOLITHIC SIDEWALKS AND WALL, REINFORCED	SQFT	0.00		\$ 2
81	BRICK PAVERS	SQFT	0.00	\$ 45.90	\$

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			TOTAL		TOTAL
NO.	ITEMS OF WORK AND MATERIALS	UNIT	QUANTITY	UNIT PRICE	AMOUNT
	CONCRETE PAVERS	SQFT	0.00		
1	PERMEABLE PAVERS	SQFT	0.00		\$ -
\$	CONCRETE RAILROAD CROSSING	FOOT	0.00		\$ -
3	GUARDRAIL, TYPE 2A	FOOT	0.00		\$ -
ş	GUARDRAIL, TYPE 3	FOOT	0.00		\$ -
k	GUARDRAIL ANCHORS, TYPE 1	EACH	0.00	manufacture and the second second	\$ -
188	GUARDRAIL END PIECES, TYPE C	EACH	0.00	\$ 121.00	\$ -
	GUARDRAIL TRANSITION	EACH	0.00	\$ 2,240.00	\$ -
190	GUARDRAIL CONNECTIONS	EACH	0.00	\$ 415.00	\$ -
191	GUARDRAIL TERMINALS, NON-FLARED	EACH	0.00		\$ -
	GUARDRAIL TERMINALS, FLARED	EACH	0.00		\$
	REMOVABLE BOLLARDS	EACH	0.00		\$ -
	CONCRETE BARRIER	FOOT	0.00		\$ -
	IMPACT ATTENUATORS, TYPE B	EACH	0.00		\$ -
	IMPACT ATTENUATORS, TYPE E	EACH	0.00		\$ -
	DELINEATORS TYPE 2	EACH	0.00		\$ -
		EACH	0.00		\$ -
		FOOT	60.00		\$ 36.00
		EACH	0.00		\$ -
1 A 44	PAVEMENT BAR REMOVAL BI-DIRECTIONAL YELLOW TYPE I MARKERS	SQFT EACH	0.00		\$ - \$ -
	MONO-DIRECTIONAL WHITE TYPE I MARKERS	EACH	0.00		•
	LONGITUDINAL PAVEMENT MARKING - PAINT	FOOT	0.00		<u> </u>
1	CURB MARKINGS - PAINT	FOOT	0.00		\$ -
	THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED	FOOT	60.00		\$ 84.00
1.1	PAVEMENT LEGEND, TYPE B: ARROWS	EACH	0.00		\$ -
	PAVEMENT LEGEND, TYPE B: "ONLY"	EACH	0.00		\$ -
	PAVEMENT LEGEND, TYPE B: BICYCLE LANE SYMBOLS	EACH	0.00		\$-
	PAVEMENT LEGEND, TYPE B-HS: ARROWS	EACH	0.00		\$ -
	PAVEMENT LEGEND, TYPE B-HS: BICYCLE LANE STENCIL	EACH	15.00		\$ 4,350.00
	PAVEMENT BAR, TYP B-HS	SQFT	0.00	\$ 9.90	\$ -
213	PAVEMENT BAR, TYPE A	SQFT	0.00	\$ 4.50	\$ -
214	PAVEMENT BAR, TYPE B	SQFT	0.00	\$ 9.40	\$ -
215	REMOVE EXISTING SIGNS	LS*	0.00	\$ 41.70	\$ -
	REMOVE & REINSTALL EXISTING SIGNS	LS*	0.00		\$ -
	SIGN SUPPORT FOOTINGS, BREAKAWAY	LS*	0.00	· · · · · · · · · · · · · · · · · · ·	\$ -
	SIGNAL POLE MOUNTS	LS*	1	\$ 570.00	\$ -
	PIPE SIGN SUPPORTS	LS*	0.00		\$ -
	TYPE "B" SIGNS IN PLACE	SQFT	0.00		\$ -
	TYPE "B1" SIGNS IN PLACE	SQFT	0.00		\$ -
	TYPE "C" SIGNS IN PLACE	SQFT	0.00		\$ -
	TYPE "G" SIGNS IN PLACE	SQFT	0.00	3	\$ -
	TYPE "G1" SIGNS IN PLACE TYPE "G5" SIGNS IN PLACE	SQFT	0.00		\$ -
	TYPE G5 SIGNS IN PLACE	SQFT	0.00		\$ -
	TYPE IR SIGNS IN PLACE	SQFT	0.00		\$ - \$ -
	TYPE RT SIGNS IN PLACE	SQFT SQFT	0.00	·	» - \$ -
		SQFT	0.00		\$ -
	TYPE "W2" SIGNS IN PLACE TYPE "W4" SIGNS IN PLACE	SQFT	0.00		φ \$ -
	TYPE "W6" SIGNS IN PLACE	SQFT	0.00		Ψ \$
	TYPE "W7" SIGNS IN PLACE	SQFT	· · · · · ·	\$ 20.60	\$ -
	TYPE "W12" SIGNS IN PLACE	SQFT	0.00		\$-
	TYPE "Y1 "SIGNS IN PLACE	SQFT	0.00		\$ -
235	TYPE "Y2" SIGNS IN PLACE	SQFT		\$ 14.60	\$ -
236	REMOVAL OF ELECTRICAL SYSTEMS (lighting)	LS*	0.00		\$ -
237	REMOVAL OF ELECTRICAL SYSTEMS (traffic signals)	LS*	0.00		\$-
	POLE FOUNDATIONS	LS*	0.00	\$ 2,000.00	\$-
239	LIGHTING POLES, FIXED BASE	LS*	0.00	\$ 6,890.00	\$-
	LIGHTING POLE ARMS	LS*	0.00		\$-
241	LUMINAIRES, LAMPS AND BALLASTS	LS*	0.00	\$ 1,000.00	\$ -
	SWITCHING, CONDUIT AND WIRING	LS*	0.00	· · · · · · · · · · · · · · · · · · ·	\$-
243	TRAFFIC SIGNAL INSTALLATION	LS*	0.00		\$ -
	TRAFFIC SIGNAL MODIFICATION	LS*	0.00	\$ 45,700.00	\$-
3	FLASHING BEACON INSTALLATION	LS*	0.00		\$ -

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
	LOOP DETECTOR INSTALLATION	LS*	0.00	\$ 9,120.00	\$ -
247	INTERCONNECT SYSTEM (underground)	LS*	0.00	\$ 38.90	\$ -
248	INTERCONNECT SYSTEM (overhead)	LS*	0.00	\$ 3.80	\$ -
	TRAFFIC CAMERA INSTALLATION	LS*	0.00		\$ -
250	PERMANENT SEEDING	ACRE	0.00		\$ -
251	LAWN SEEDING	SQYD	222.00		\$ 2,228.88
252	TOPSOIL	CUYD	69.00		\$ 4,140.00
	SOIL CONDITIONER	CUYD	0.00		\$ -
254	CONIFER TREES, 9 FT HEIGHT	EACH	0.00		\$ -
	DECIDUOUS TREES, 2-1/2 INCH CALIPER	EACH	16.00		\$ 13,152.00
	DECIDUOUS TREES, 3 INCH CALIPER	EACH	0.00	and the second sec	•
	SHRUBS, NO. 1 CONTAINER	EACH	0.00	Contraction of the second s	\$ - \$ -
	SHRUBS, NO. 2 CONTAINER	EACH	0.00	the second se	\$ -
	SHRUBS, NO. 3 CONTAINER	EACH	0.00		\$ -
	SHRUBS, NO. 5 CONTAINER	EACH	0.00		
	GROUND COVERS, NO. 1 CONTAINERS	EACH	0.00	a diale and a second se	
	GROUND COVERS, 4 INCH POTS	EACH	0.00		\$ - \$ -
	BULBS	EACH	0.00		-
man and	SEEDLING PLANTS	EACH			a second and a second sec
	ROOTED PLANT CUTTINGS		0.00	Carden and Annual Annua	\$ -
	SOD LAWN	EACH		a mail and a	\$ -
A	BARK MULCH		0.00	and the second se	\$ -
and the second second	ROCK MULCH	CUYD	0.00		\$ -
The local states of	6.1.0.1612.1612.9613.6.7.0	TON	0.00		\$ -
	ADDITIONAL ESTABLISHMENT PERIOD	YEAR*	16.00		\$ 4,224.00
the second second	TREE GRATES	EACH			\$ -
and should be	ROOT BARRIER	FOOT	0.00	Section of the sectio	\$ -
The Disease in	TREE GRATE FRAMES	EACH	and the second sec	\$ 451.00	\$ -
And the second	BORDER EDGING	FOOT	0.00	the second se	\$ -
a register some	TYPE 2 FENCE	FOOT	0.00	the second se	\$ -
	CL-6 CHAIN-LINK FENCE	FOOT	0.00		\$ -
	CL-6R CHAIN-LINK FENCE	FOOT	0.00	the second	\$ -
	CL-4R CHAIN-LINK FENCE WITH VINYL CLAD FABRIC	FOOT	0.00	the state of the second st	\$ -
278	ORNAMENTAL PROTECTIVE SCREENING	FOOT	0.00	\$ 158.00	\$-
	REMOVING AND REBUILDING FENCE	FOOT	0.00	\$ 27.40	\$ -
280	SINGLE MAILBOX SUPPORTS	EACH	0.00	\$ 300.00	\$ -
281	MULTIPLE MAILBOX SUPPORTS	EACH	0.00	\$ 339.00	\$ -
282	MAILBOX CONCRETE COLLARS	EACH	0.00	\$ 66.00	\$ -
283	REMOVE & REINSTALL MAILBOX SUPPORTS	EACH	0.00	\$ 224.00	\$ -
284	BENCHES, TYPE	EACH	0.00	\$ 3,090.00	\$ -
285	BICYCLE RACKS	EACH	0.00	and have design and have the	\$ -
286	LITTER RECEPTACLES	EACH	0.00	\$ 1,290.00	\$ -
287	IRRIGATION SYSTEM	LS	0.00	\$ 3,100.00	\$ -
	4 INCH DUCTILE IRON PIPE	FOOT	0.00		\$ -
289	6 INCH DUCTILE IRON PIPE	FOOT	0.00		s -
12 Post, 1997	8 INCH DUCTILE IRON PIPE	FOOT	0.00		\$ -
	12 INCH DUCTILE IRON PIPE	FOOT	0.00		\$ -
statute and	4 INCH GATE VALVE, MJ	EACH	0.00		\$ -
	6 INCH GATE VALVE, MJ	EACH	0.00	and the second s	\$ -
202212	8 INCH GATE VALVE, MJ	EACH	0.00		\$ -
and the second second	12 INCH GATE VALVE, MJ	EACH	0.00		\$
100000000000000000000000000000000000000	HYDRANT ASSEMBLIES	EACH			¢ .
	2 INCH SERVICE LINE, SHORT RUN		0.00		¢ -
	3 INCH SERVICE LINE, SHORT RUN	EACH	0.00		\$ -
and the second sec	AL BID ITEMS	EACH	0.00	\$ 2,820.00	\$

####### ANTICIPATED ITEMS ###	11111	and the second		-	
NO. ITEMS OF WORK AND MATERIALS	UNIT	QUANTITY	UNIT PRICE		AMOUNT
1 RIGHT OF WAY MONUMENTATION	LS	0.00	\$ -	\$	
2 RELOCATE WATER FACILITIES - MAINS, VALVES, ETC.	LS	1.00	\$ 60,000.00	\$	60,000.00
3 RELOCATE WATER FACILITIES - METER	EACH	0.00	\$ 6,000.00	\$	-
4 STREET LIGHTING - UPGRADE LUMINAIRES	EACH	0.00	\$ 600.00	\$	-
5 STREET LIGHTING - INSTALL ARMS AND LUMINAIRES	EACH	0.00	\$ 5,000.00	\$	
6 CONNECT CONTRACTOR INSTALLED TRAFFIC SIGNAL LOOPS TO CONTROLLER BY BOM	EACH	0.00	\$ 1,000.00	\$	-

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	U	JNIT PRICE	- 33	TOTAL AMOUNT
7	STORMWATER PLANTINGS AND PLANT ESTABLISHMENT	SQFT	660.00	\$	20.00	\$	13,200.00
8	STORMWATER OFFSITE MANAGEMENT FEE	SQFT	0.00	\$	3.70	\$	-
9	ROCK EXCAVATION	CUYD	0.00	\$	106.00	\$	-
10	RAILROAD PROTECTION SERVICES (ONE YEAR)	LS	0.00	\$	100,000.00	\$	-
11	ASPHALT CEMENT ESCALATION	LS	1.00	\$	-	\$	
12	FUEL ESCALATION	LS	1.00	\$		\$	-
13	TESTING CONTAMINATED MEDIA	LS	0.00	\$	5,000.00	\$	7
14	BOLI FEE PAYMENT	LS	1.00	\$	562.65	\$	562.65
15	CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER ESTIMATE)	LS	1.00	\$	56,264.52	\$	56,264.52

SCHEDULE SUMMARY

		\$	562,645
	3.5% of Bid Items*	\$	19,693
		\$	582,338
		\$	130,027
		\$	712,365
	5% of Bid Items	\$	28,132
	25% of Bid Items	\$	140,661
	15% of Bid Items	\$	84,397
	1000 000 000	\$	253,190
	79.27% of PM, Eng. and CM	\$	200,704
		\$	453,894
		\$	
		\$	-
	of Land, Improve, and		
	30% Damages	\$	
		\$	
Years	Inflation		
5	4.5% of Construction	\$	175,371
5	2.0% of Eng & Mgmt	\$	47,242
	20% of Const, Eng & Mgmt, and Inflation	\$	277,775
	2 M 1970	\$	500,388
	5	5% of Bid Items 25% of Bid Items 15% of Bid Items 79,27% of PM, Eng. and CM 79,27% of PM, Eng. and CM 30% Damages Years Inflation 5 4.5% of Construction 5 2.0% of Eng & Mgmt 20% of Const. Eng & Mgmt, and	3.5% of Bid Items \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

LS* Unit Price shown is on Pound, Each, or Foot Basis as applicable Remove * and change unit to 1 in the Bid Form

Descript

-ocation:

Current Cros

osed Cric

SWI										
Swele/Curb	2.1 T/CY		10 TICY							
Perking	2.1		0. 							
through	Tons 0.0 0.0 0.0 0.0		Tons 0.0 0.0 0.0 0.0				-			
Left turn	Vol.cy 0.0 0.0 0.0		Vol. CV 0.0 0.0 0.0 0.0							
through	Depth, in	Depth, in. Centre of the second secon	< Insert formula	curb & gutter	& gutter			र्स्ट वर्ष वर्ष		
Parking		∑ S C C C Z		Swale curb 8	Swale curb 8		Area.sf 0 630 0 0			Vol.CV
SwaleCurb	Area,sf 0.0 0.0 0.0 0.0	Area.sf 0.0 0.0 0.0	Area st 0.0 0.0 0.0 0.0	Vol. cy 0.0 15.6 3.4 13.6 13.6 283.5 316	Vel. cy 0.0 0.0 0.0 0.0 0.0 0.0	Area, sf 109 366 0	Area: sf 2400 1500 15308 W, ft. 7.5	2 per	Area, sf 560 1 every 25	0 16 16 16
SWICurb	Х, f.	Ϋ́, Ψ	κ, tt.	Depth, in. 8 6 6	Depth, in.	W, ft. 0.5 2	W. ft. 6 7.5 Wings L, ft	Total #DIV/01 #DIV/01 5	W, ft. 14 Dwys, ft.	N, ft.
<u>ਜ</u>	μ	μ. Γ	L, ft. Area, sy	0 Area, sf 0.0 0.0 630 109 366 15308 15413.0	Area, sf 0.0 0.0 109 0 0	217 217 183 400	L. ft. 1721 (includes wings) Dwy L, ft. 84	£ N	L, ft. 400	400 L
Typical Sections	MWMAC Base & Wearing 2 3	Agregate Base - Inckness A nch Thick 2 Xinch Thick 3 Xinch Thick 4 Xinch Thick Total 4 Inch Thick Total 6 Inch Thick	lotal 6 Inch Inck Aggregate Base - Tons 1 2 3 Subgrade Geotextile Subgrade Geotextile		General Excavation - from Tons 1 Roadway 2 Roadway 3 Roadway Curb Gutter Sidewalk Sidewalk	Concrete Curbs Curb - Dosch Rd., Both Sides Thickened Curb & 18" Gutter	sidewalks Separated - Dosch Rd., Both Sides Monolithic Curb Gutter & Sidewalk Monolithic Curb Gutter & Sidewalk Driveways Adjacent to Swale Adjacent to Swale Adjacent to Swale Adjacent to Swale Adjacent to Swale Adjacent to Swale Adjacent to Curb & Driveway Monolithic Curb & Driveway	Inlets & Leads SW Inlets PB Inlets G-2 Inlets CG-2 Inlets CG-2 Inlets Rip Rap	Swales 10% of Dosch Rd. Impervious Trees	Trees in Planting Strip Trees in Tree Wells Trees in Tree Wells Topsoil

0 ' pavement 0 ' pavement ting 60 60 WN 0 WN 0

				•
	Area,sf	0	0	
	Ht., ft.			
	L, ft.			
Retaining Wall		Segmental	Prefabricated modular	

			•	
Factor.			E Circle	
		#Removal	Permanent	
	L,Tot., ft.	0	0	
	L, ft	0	0	
	L, ft.	0	0	
Striping		Removal	Permanent	

1 Spira

⊷ ĝ

1.125 2 way LT

2 double

0.6 Skip

Z Tu

2 Bike

Marking			
	Ľ¥.	L, ft.	L, Tot., ft.
Arrows			0
Stop Bars			0

			-				-		
	New Lt. Poles	New Lt. Poles	Wood Pole Lights Cobra	Single Ornamental	Twin Ornamental	RW	Location -	Watsh Holdings LLC	Vancouver Ways Land Co.

|--|

	Name	Street name	Destination	Yield	One Way (Rt. Arrow)	roundabout left thru/right only	roundabout left thru/right thru	15 MPH Rider	Traffic Circle Ahead	
	Area, sf	0	0	0	0	0	0	0	0	0
	Dimensions, in	24	60	36	12	ŝ	30	18	8	
	Dimens	9	б	36	36	30	30	18	80	
	ea									0.0
	City #	G5500	G5550	R 1060	R 5020			R 4020	R 1700	. sbu
Signs	ODOT #	თ	σ	82	W7	W7	W7	۲1	Y3	posts/footings

				and the second se		
RW	Area	Cost / SE and Cost	No.	Acq./ Prop	Appr./Prop	'op Appr./Prop Total DAM
Location -			Properties	\$6,000	\$3,000	
Valsh Holdings LLC		- \$		۰ ج	۰ ۶	, Ø
'ancouver Ways Land Co.		ہ ب		۰ ج	ب	ч 9

Inse



CITY OF PORTLAND, OREGON BUREAU OF TRANSPORTATION PRELIMINARY ENGINEER'S ESTIMATE

SW Beaverton-Hillsdale Hwy from 18th Dr. to 25th Ave. Sidewalk Infill, S. Side

Date: August 18, 2016

By: RB

PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF SW Beaverton-Hillsdale Hwy FROM SW 18th Drive TO SW 25th Avenue

VALUES IN BLUE ARE PERCENT OF CONTRACT.

######## BID ITEMS #########

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL AMOUNT
-	MOBILIZATION	LS	1.00		\$	12,121.70
	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	LS	1.00		\$	3,636.51
	TEMPORARY SIGNS	SQFT	54.00		\$	1,080.00
- Andrew Street of	TEMPORARY BARRICADES, TYPE II	EACH	0.00		\$	1,000.00
	TEMPORARY BARRICADES, TYPE III	EACH	0.00		ŝ	
	TEMPORARY CONCRETE BARRIER, REFLECTORIZED	FOOT	0.00		\$	
	MOVING TEMPORARY CONCRETE BARRIER	FOOT	0.00		\$	
V. 1	TEMPORARY IMPACT ATTENUATOR	EACH	0.00		φ ¢	
	TEMPORARY PEDESTRIAN WALKWAYS	FOOT	0.00		\$	
and the second	TEMPORARY PLASTIC DRUMS	EACH	5.00	and the second s	\$	260.00
1000	TEMPORARY REFLECTIVE PAVEMENT MARKERS	EACH	0.00		Ф \$	200.00
	TEMPORARY FLEXIBLE PAVEMENT MARKERS	EACH	0.00		\$	
and the second second	TEMPORARY STRIPING	FOOT	and the second sec	and the second se		-
and the second s	STRIPE REMOVAL	FOOT	0.00		\$	-
	STRIPE REMOVAL STRIPING & STRIPE REMOVAL MOBILIZATION		0.00		\$	-
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	0.00		\$	
		EACH	0.00		\$	
	SEQUENTIAL ARROW SIGNS	EACH	0.00		\$	1 000 00
	PORTABLE CHANGEABLE MESSAGE SIGNS FLAGGERS	EACH	1.00		\$	4,330.00
		HOUR	500.00	and the second se	\$	24,250.00
	TRAFFIC CONTROL SUPERVISOR	HOUR	0.00		\$	
	TEMPORARY TYPE ORANGE PLASTIC MESH FENCE	FOOT	0.00	and the second se	\$	
	TEMPORARY CL-6R CHAIN LINK FENCE	FOOT	0.00	the second se	\$	
201	EROSION CONTROL	LS	1.00	the second se	\$	1,212.17
and the second s	PLASTIC SHEETING	SQFT	0.00		\$	
10.0 Cold	MATTING	SQFT	0.00		\$	
	CONSTRUCTION ENTRANCES	EACH	0.00		\$	
	SEDIMENT FENCE, SUPPORTED	FOOT	0.00		\$	
	SEDIMENT FENCE, UNSUPPORTED	FOOT	444.00		\$	1,110.00
	INLET PROTECTION	EACH	5.00	(2) (2) (2) (2)	\$	440.00
and the second distance of the second	POLLUTION CONTROL PLAN	LS	1.00		\$	121.22
	CONTAMINATED MEDIA DISPOSAL	CUYD	0.00		\$	
	TRUCK LINERS	EACH	0.00		\$	
33	HASP/CMDP WORKPLANS	LS	0.00	\$ 1,000.00	\$	
34	REMOVAL OF PIPES	FOOT	0.00	\$ 25.30	\$	
35	REMOVAL OF CURBS	FOOT	0.00	\$ 7.30	\$	-
36	REMOVAL OF WALKS AND DRIVEWAYS	SQYD	0.00	\$ 13.90	\$	-
37	REMOVAL OF SURFACINGS	SQYD	0.00	\$ 8.20	\$	-
38	REMOVAL OF INLETS	EACH	0.00	\$ 310.00	\$	-
39	REMOVAL OF MANHOLES	EACH	0.00	\$ 1,050.00	\$	÷
40	REMOVAL OF RAILROAD TRACK AND TIES	FOOT	0.00	\$ 58.70	\$	-
41	SALVAGING AND STOCKPILING OF COBBLESTONES	SQYD	0.00	\$ 20.90	\$	-
42	REMOVE AND REINSTALL HORSE RINGS	EACH	0.00	\$ 227.00	\$	-
43	REMOVAL OF STRUCTURES & OBSTRUCTIONS	LS	1.00		\$	4,848.68
44	REMOVAL OF FENCES	FOOT	0.00		\$	
45	CLEARING AND GRUBBING	LS	1.00		\$	3,151.64
46	TREE ROOT REMOVAL	HOUR	.0.00		\$	-
100000-0000-000-000-000-000-000-000-000	TREE TRIMMING	HOUR	0.00		\$	
and the second second	DITCH EXCAVATION	CUYD	0.00	(2)	\$	
	GENERAL EXCAVATION	CUYD	74.00		\$	3,626.00
	SURCHARGE EXCAVATION	CUYD	0.00		\$	
		CUYD	0.00	\$ 24.00		

NO.	ITEMS OF WORK AND MATERIALS		UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUN
52	SETTLEMENT PLATE		EACH	0.00	the second state of the se	\$
53	12 INCH SUBGRADE STABILIZATION		SQYD	0.00		\$
54	AGGREGATE DITCH LINING	-	SQYD	0.00		\$
55	WATERING		MGAL	0.00	\$ 26.20	\$
56	DRAINAGE GEOTEXTILE, TYPE 2		SQYD	0.00	\$ 1.05	\$
57	EMBANKMENT GEOTEXTILE		SQYD	0.00	\$ 1.50	\$
	SUBGRADE GEOTEXTILE		SQYD	0.00	\$ 1.25	\$
	GEOGRID		SQYD	0.00	Total Total State State	\$
	GRANULAR DRAINAGE BLANKET		TON	0.00		\$
	FILTER BLANKET		SQYD	0.00	and the second sec	\$
	LOOSE RIPRAP, CLASS 50		CUYD	0.00	a data da anticipa	\$
	LOOSE RIPRAP, CLASS 100		CUYD	0.00	1. p. p	\$
	WIRE MESH SLOPE PROTECTION		SQFT	0.00	And a second sec	\$
	VIDEO INSPECTION OF SEWERS, MAINLINE		FOOT	0.00	and a second sec	\$
	TRENCH EXCAVATION, COMMON		CUYD	0.00	\$ 16.70	\$
Sector And	EXPLORATORY EXCAVATION		CUYD	0.00		\$
	POTHOLE EXCAVATION		EACH	0.00	\$ 548.00	\$
	TRENCH FOUNDATION STABILIZATION		CUYD	0.00	\$ 61.00	\$
	TRENCH BACKFILL, CLASS B		CUYD	0.00	\$ 33.00	\$
	STORMWATER CURB EXTENSIONS		SQFT	0.00		\$
	STORMWATER PLANTERS		SQFT	0.00	\$ 38.10	\$
	STORMWATER SWALES		SQFT	0.00	\$ 15.10	\$
	3 INCH DRAIN PIPE		FOOT	0.00	\$ 17.00	\$
	SUBSURFACE DRAIN OUTLETS		EACH	0.00		\$
	12 INCH PIPE, PVC AWWA C900, CI 150, BEDDING TYPE: D, COMPLETE		FOOT	0.00		\$
	6 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D		FOOT	0.00	\$ 80.00	\$
78	8 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D		FOOT	0.00	\$ 90.00	\$
79	10 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE		FOOT	10.00	\$ 110.00	\$ 1,100
	12 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE		FOOT	0.00	\$ 120.00	\$
81	18 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D		FOOT	0.00	\$ 130.00	\$
82	10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE		FOOT	0.00	\$ 110.00	\$
83	12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE		FOOT	0.00	\$ 120.00	\$
	8 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D		FOOT	0.00	\$ 90.00	\$
85	10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D		FOOT	0.00	\$ 110.00	\$
86	12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D		FOOT	0.00	\$ 120.00	\$
	CONCRETE CLOSURE COLLAR		EACH	0.00	\$ 550.00	\$
88	CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH		EACH	0.00	\$ 4,400.00	\$
89	CONCRETE MANHOLES, 48 INCH, DEEPER THAN 8 FT		FOOT	0.00	\$ 300.00	\$
	CONCRETE MANHOLES, SANITARY SEWER		EACH	0.00	\$ 3,460.00	\$
	CONCRETE MANHOLES, WATER QUALITY	-	EACH	0.00	\$ 12,410.00	\$
	CONCRETE MANHOLES, SEDIMENTATION		EACH	0.00	\$ 5,610.00	\$
93	CONCRETE MANHOLES, SUMP		EACH	0.00	\$ 13,000.00	\$
94	SUMP CAPACITY TEST		EACH	0.00		\$
95	CONCRETE INLETS, TYPE CG-1		EACH	0.00	\$ 1,700.00	\$
96	CONCRETE INLETS, TYPE CG-2		EACH	1.00	\$ 1,900.00	\$ 1,900
97	CONCRETE INLETS, TYPE CG-3		EACH	0.00	\$ 2,000.00	\$
	CONCRETE INLETS, TYPE D		EACH	0.00		\$
99	CONCRETE INLETS, TYPE G-1		EACH	0.00		\$
100	CONCRETE INLETS, TYPE G-2		EACH	0.00	\$ 1,800.00	\$
101	CONCRETE INLETS, TYPE G-2MA		EACH	. 0.00		\$
102	CONCRETE INLETS, DEEPER THAN 4 FT		FOOT	0.00	\$ 300.00	\$
103	CONCRETE INLETS, TYPE METAL		EACH	0.00		\$
104	CONCRETE INLETS, TYPE METAL, MODIFIED		EACH	0.00		\$
	CONCRETE INLETS, TYPE CHANNEL & GRATE		EACH	0.00		\$
106	CONCRETE INLETS, TYPE CONCRETE		EACH	0.00		\$
107	CONCRETE INLETS, TYPE BEEHIVE		EACH	0.00	and the second se	\$
108	CATCH BASINS, METAL SUMP		EACH	0.00		\$
109	ACCESS DOORS		EACH	0.00		\$
110	DRAINAGE CURBS		FOOT	0.00		\$
111	ADJUSTING BOXES		EACH	0.00	and the second s	\$
112	CONNECTION TO EXISTING STRUCTURES		EACH	0.00	the second s	\$
1000	ADJUSTING INLETS		EACH	0.00	and the second se	\$
- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	FILLING ABANDON STRUCTURES		EACH	0.00	the second	\$
1.	MINOR ADJUSTMENT OF MANHOLES		EACH	0.00	and a second sec	\$
A 44 4 3 1 4	MAJOR ADJUSTMENT OF MANHOLES		EACH	0.00	the second se	\$

S:_i_Development\2016\Beaverton-Hillsdale Hwy - 18th to Dosch, SW\ Estimate Template 2016 B-H Hwy 18th-30th.xlsm

10.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL	UNIT PRICE	TOTAL AMOUNT
_	MANHOLES OVER EXISTING SEWERS	EACH	0.00		\$ -
10.000	TRENCH RESURFACING	SQYD	0.00	the second se	\$ -
	TEMPORARY TRENCH RESURFACING	SQYD	0.00		\$ -
	SHORING, CRIBBING AND COFFERDAMS	LS	0.00		\$ -
	STRUCTURE EXCAVATION	CUYD	0.00	the second se	\$ -
22 0	GRANULAR WALL BACKFILL	CUYD	0.00		\$ -
	GRANULAR STRUCTURAL BACKFILL	CUYD	0.00		\$ -
24 1	REINFORCEMENT	LS*	0.00		\$ -
25 (CONCRETE BRIDGE	SQFT	0.00		\$ -
26 1	BIKE OASIS	EACH	0.00	\$ 32,400.00	\$ -
27 3	3 INCH ELECTRICAL CONDUIT	FOOT	0.00	\$ 9.05	\$ -
28	ASPHALTIC PLUG JOINT SEALS	LS	0.00	\$ 7,470.00	\$ -
29 /	ASPHALTIC PLUG JOINT SEAL MATERIAL	CUYD	0.00		\$ -
30 (CONCRETE BRIDGE RAIL WITH ORNAMENTAL PROTECTIVE SCREENING	LS*	0.00		\$ -
31 1	RETAINING WALL, CAST-IN-PLACE CONCRETE	SQFT	0.00		\$ -
	RETAINING WALL, GABION	SQFT	0.00	Name and Address of the Owner o	\$ -
	RETAINING WALL, PREFABRICATED MODULAR	SQFT	0.00	the second se	\$ -
	RETAINING WALL, CONVENTIONAL SEGMENTAL	SQFT	0.00		\$ -
	RETAINING WALL, MSE	SQFT	0.00	and the second se	\$ -
	SOUND WALLS	SQFT	0.00		\$ -
	CONCRETE ARCH CULVERT	FOOT	0.00	and the second s	\$ -
- 60 P F F	CONCRETE SLOPE PAVING	SQFT	0.00		\$ -
	COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP	SQYD	0.00	and the second s	\$
	COLD PLANE PAVEMENT REMOVAL, 3 INCH DEEP	SQYD	0.00		\$.
	COLD PLANE PAVEMENT REMOVAL, 4 INCH DEEP	SQYD	0.00		\$ -
	COLD PLANE PAVEMENT REMOVAL, 5 INCH DEEP	SQYD	0.00		\$.
	AGGREGATE BASE	TON	0.00	and the second se	\$.
	AGGREGATE BASE, 4 INCH THICK	SQYD	0.00	the second se	s .
	AGGREGATE BASE, 6 INCH THICK	SQYD	0.00	and the second se	\$
	AGGREGATE BASE, 8 INCH THICK	SQYD	0.00	and the second se	\$
	LEVEL 1, 1/2 INCH DENSE, MWMAC MIXTURE, IN TEMPORARY	TON	0.00	and a second	\$ -
	LEVEL 2, 1/2 INCH DENSE, MWMAC MIXTURE	TON	0.00		\$ -
	EVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE	TON	0.00		\$ -
	EVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE, IN LEVELING	TON	0.00		\$ -
	EVEL 3, 3/4 INCH ATPB, MWMAC MIXTURE	TON	0.00	AL	\$ -
	CRACK SEALING	FOOT	0.00	44 A 44	\$ -
	13 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SQYD	49.00		\$ 8,771.
	16 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SQYD	0.00		\$
10.00	EXTRA FOR ASPHALT APPROACHES	EACH	0.00	The second	\$.
100.00	ASPHALT CONNECTIONS	SQFT	0.00	1 To an an an an and the second	\$.
100	ASPHALT SPEED BUMPS	EACH	0.00	and an and an an and an an and an	\$.
	PLAIN CONCRETE PAVEMENT, UNDOWELLED, 6 INCH THICK	SQYD	0.00		\$
	PLAIN CONCRETE PAVEMENT, UNDOWELLED, 8 INCH THICK	SQYD	0.00		\$
	PLAIN CONCRETE PAVEMENT, UNDOWELLED, 10 INCH THICK	SQYD	0.00		¢
	PLAIN CONCRETE PAVEMENT, UNDOWELLED, 12 INCH THICK	SQYD	0.00		\$ -
	PLAIN PERVIOUS CONCRETE PAVEMENT, UNDOWELLED, 10-INCH THICK	SQYD	0.00		\$
	CONCRETE CURBS, CURB AND GUTTER	FOOT	0.00	and a second sec	\$
and the second	CONCRETE CURBS, STANDARD CURB	FOOT	0.00		¢
CTN 177	CONCRETE CURB, MOUNTABLE CURB	FOOT	0.00	and a second property and	\$
	CONCRETE CURBS, THICKENED CURB AND GUTTER	FOOT	0.00	and the second s	\$
1.0	CONCRETE ISLANDS	SQFT	0.00		\$.
안내는	CONCRETE DRIVEWAYS	SQFT	0.00	and an and the second s	\$.
	CONCRETE DRIVEWAYS, REINFORCED	SQFT	0.00	the second secon	\$
	CONCRETE WALKS	SQFT	0.00		\$
61.6	MONOLITHIC CURB AND SIDEWALKS	SQFT	3,996.00		\$ 71,928
1.1	MONOLITHIC CURB GUTTER AND SIDEWALKS	SQFT	0.00	and the second s	
1.1 12	CONCRETE VALLEY GUTTER	FOOT	0.00	10 OK (10	\$- \$-
- MI	SINCH CONCRETE SURFACING	SQFT	0.00	- 5 CONTRACTOR - 1	\$ \$
5.103	CONCRETE STAIRS		1	and the second s	¢.
Sec. 1.54	CONCRETE DRIVEWAY CONNECTIONS	CUYD	0.00	and the second sec	¢ .
121 115	CONCRETE SIDEWALK RAMPS	SQFT	0.00	the second	\$ -
C+1110.	CONCRETE BUS SHELTER PADS	EACH	0.00		\$ -
1.20	DETECTABLE WARNING SURFACE	EACH	0.00		φ -
OF		SQFT	0.00	\$ 42.30	\$.
	MONOLITHIC SIDEWALKS AND WALL, REINFORCED	SQFT	0.00	the second se	\$

S:_I_Development\2016\Beaverton-Hillsdale Hwy - 18th to Dosch, SW\ Estimate Template 2016 B-H Hwy 18th-30th.xIsm

		- 19 <u>-</u> 10			
[TOTAL		TOTAL
NO.	ITEMS OF WORK AND MATERIALS	UNIT	QUANTITY	UNIT PRICE	AMOUNT
	CONCRETE PAVERS	SQFT	0.00 \$		\$ -
183	PERMEABLE PAVERS	SQFT FOOT	0.00 \$		<u>\$</u> - \$-
	CONCRETE RAILROAD CROSSING GUARDRAIL, TYPE 2A	FOOT	0.00 \$		\$ -
186	GUARDRAIL, TYPE 3	FOOT	0.00 \$		<u>\$</u>
		EACH EACH	0.00 \$		ծ - Տ -
	GUARDRAIL END PIECES, TYPE C	EACH	0.00 \$	5 2,240.00	\$ -
190	GUARDRAIL CONNECTIONS	EACH	0.00 \$		<u>\$</u> - \$-
	GUARDRAIL TERMINALS, NON-FLARED GUARDRAIL TERMINALS, FLARED	EACH EACH	0.00 \$		⇒ - \$ -
	REMOVABLE BOLLARDS	EACH	0.00 \$	5 750.00	\$ -
194	CONCRETE BARRIER	FOOT	0.00 \$ 0.00 \$		\$ - \$ -
	IMPACT ATTENUATORS, TYPE B IMPACT ATTENUATORS, TYPE E	EACH EACH	0.00 \$	· · · · · · · · · · · · · · · · · · ·	\$ -
	DELINEATORS TYPE 2	EACH	0.00 \$	68.80	\$ -
198	DELINEATORS TYPE 4	EACH	0.00 \$		\$ - \$ -
		FOOT EACH	0.00		<u> </u>
	PAVEMENT LEGEND REMOVAL PAVEMENT BAR REMOVAL	SQFT	0.00		\$ -
202	BI-DIRECTIONAL YELLOW TYPE I MARKERS	EACH	0.00		\$
203	MONO-DIRECTIONAL WHITE TYPE I MARKERS	EACH FOOT	0.00		<u>\$</u> - \$-
202	CURB MARKINGS - PAINT	FOOT	0.00	\$ 2.00	\$ -
206	THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED	FOOT	0.00		\$
207	PAVEMENT LEGEND, TYPE B: ARROWS PAVEMENT LEGEND, TYPE B: "ONLY"	EACH EACH	0.00 9	\$ 279.00 \$ 332.00	\$ - \$ -
208	PAVEMENT LEGEND, TYPE B. ONET	EACH	0.00	\$ 286.00	\$ -
210	PAVEMENT LEGEND, TYPE B-HS: ARROWS	EACH	0.00 \$		\$ - \$ 1,450.00
	PAVEMENT LEGEND, TYPE B-HS: BICYCLE LANE OR PEDESTRIAN STENCIL	EACH SQFT	5.00 S		\$ 1,450.00 \$ -
	PAVEMENT BAR , TYP B-HS PAVEMENT BAR, TYPE A	SQFT	0.00 \$	\$ 4.50	\$ -
214	PAVEMENT BAR, TYPE B	SQFT		\$ 9.40	<u>\$</u> - \$-
		LS*	a second se	\$ 41.70 \$ 167.00	ъ - \$ -
210	REMOVE & REINSTALL EXISTING SIGNS SIGN SUPPORT FOOTINGS, BREAKAWAY	LS*	0.00	\$ 182.00	\$ -
218	3 SIGNAL POLE MOUNTS	LS*	0.00		\$ -
4 = 53		LS* SQFT	0.00	\$ 180.00 \$ 18.60	ъ - \$ -
	TYPE "B" SIGNS IN PLACE	SQFT		\$ 23.20	\$ -
	2 TYPE "C" SIGNS IN PLACE	SQFT		\$ 19.80	<u>\$</u> -
\$	3 TYPE "G" SIGNS IN PLACE	SQFT SQFT		\$	\$ - \$ -
	4 TYPE "G1" SIGNS IN PLACE 5 TYPE "G5" SIGNS IN PLACE	SQFT		\$ 33.00	\$-
	5 TYPE "R" SIGNS IN PLACE	SQFT		\$ 20.90	\$ -
	7 TYPE "R1" SIGNS IN PLACE	SQFT SQFT	and the second sec	\$ 18.80 \$ 19.00	⇒ - \$ -
	8 TYPE "W1" SIGNS IN PLACE TYPE "W2" SIGNS IN PLACE	SQFT		\$ 19.90	
	D TYPE "W4" SIGNS IN PLACE	SQFT		\$ 20.90	a second a s
	1 TYPE "W6" SIGNS IN PLACE	SQFT SQFT		\$ 15.00 \$ 20.60	and the second s
	2 TYPE "W7" SIGNS IN PLACE 3 TYPE "W12" SIGNS IN PLACE	SQFT		\$ 25.60	\$ -
23	4 TYPE "Y1 "SIGNS IN PLACE	SQFT	A second and a second sec	\$ 19.00	\$ -
23	5 TYPE "Y2" SIGNS IN PLACE	SQFT LS*	0.00 0.00	\$ 14.60 \$ 389.00	\$ - \$ -
23	6 REMOVAL OF ELECTRICAL SYSTEMS (lighting) 7 REMOVAL OF ELECTRICAL SYSTEMS (traffic signals)	LS*	0.00		\$-
	8 POLE FOUNDATIONS	LS*	0.00	\$ 2,000.00	\$ -
A	9 LIGHTING POLES, FIXED BASE	LS* LS*	0.00		\$ - \$ -
	0 LIGHTING POLE ARMS 1 LUMINAIRES, LAMPS AND BALLASTS	LS LS*	0.00	\$ 1,000.00	\$ -
24	2 SWITCHING, CONDUIT AND WIRING	LS*	0.00	\$ 25.00	and the second sec
24	3 TRAFFIC SIGNAL INSTALLATION	LS* LS*	0.00 0.00		
24	4 TRAFFIC SIGNAL MODIFICATION 5 FLASHING BEACON INSTALLATION	LS LS*	0.00	a second a second and a second as	a second a s
1 24		۰	5	, and the second	

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUN
	LOOP DETECTOR INSTALLATION	LS*	0.00	\$ 9,120.00	\$
247	INTERCONNECT SYSTEM (underground)	LS*	0.00	\$ 38.90	\$
248	INTERCONNECT SYSTEM (overhead)	LS*	0.00	\$ 3.80	\$
249	TRAFFIC CAMERA INSTALLATION	LS*	0.00		\$
250	PERMANENT SEEDING	ACRE	0.00		S
51	LAWN SEEDING	SQYD	49.00	and the second s	\$ 49
52	TOPSOIL	CUYD	8.00	And a second sec	\$ 48
53	SOIL CONDITIONER	CUYD	0.00		\$
	CONIFER TREES, 9 FT HEIGHT	EACH	0.00		\$
	DECIDUOUS TREES, 2-1/2 INCH CALIPER	EACH	0.00		\$
	DECIDUOUS TREES, 3 INCH CALIPER	EACH	0.00		\$
	SHRUBS, NO. 1 CONTAINER	EACH	0.00		\$
	SHRUBS, NO. 2 CONTAINER	EACH	0.00		\$
	SHRUBS, NO. 3 CONTAINER	EACH	0.00		\$
	SHRUBS, NO. 5 CONTAINER	EACH	0.00		\$
	GROUND COVERS, NO. 1 CONTAINERS	EACH	0.00		· ·
	GROUND COVERS, 4 INCH POTS				\$
	BULBS	EACH	0.00		\$
	SEEDLING PLANTS	EACH	0.00	The second	\$
	ROOTED PLANT CUTTINGS	EACH	0.00		\$
(Table)		EACH	0.00		\$
and sold in	SOD LAWN	SQYD	0.00	the second se	\$
and the second second	BARK MULCH	CUYD	0.00		\$
	ROCK MULCH	TON	0.00	and the second sec	\$
	ADDITIONAL ESTABLISHMENT PERIOD	YEAR*	0.00	and the second s	\$
	TREE GRATES	EACH	0.00		\$
1000	ROOT BARRIER	FOOT	0.00	\$ 11.90	\$
10.00	TREE GRATE FRAMES	EACH	0.00	\$ 451.00	\$
(Arrest)	BORDER EDGING	FOOT	0.00	\$ 6.70	\$
	TYPE 2 FENCE	FOOT	0.00	\$ 6.85	\$
75	CL-6 CHAIN-LINK FENCE	FOOT	0.00	\$ 25.80	\$
76	CL-6R CHAIN-LINK FENCE	FOOT	0.00	\$ 22.90	\$
77	CL-4R CHAIN-LINK FENCE WITH VINYL CLAD FABRIC	FOOT	0.00	\$ 27.80	\$
78	ORNAMENTAL PROTECTIVE SCREENING	FOOT	0.00	\$ 158.00	\$
79	REMOVING AND REBUILDING FENCE	FOOT	0.00	\$ 27.40	\$
80	SINGLE MAILBOX SUPPORTS	EACH	0.00		\$
81	MULTIPLE MAILBOX SUPPORTS	EACH	0.00		\$
82	MAILBOX CONCRETE COLLARS	EACH	0.00		\$
83	REMOVE & REINSTALL MAILBOX SUPPORTS	EACH	0.00	a bank was a second of the bank of the data of the second s	\$
1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 -	BENCHES, TYPE	EACH	0.00	and a straight the second straight the	\$
85	BICYCLE RACKS	EACH	0.00	the start with the start of the	\$
	LITTER RECEPTACLES	EACH		\$ 1,290.00	\$
	IRRIGATION SYSTEM	LS	0.00		
	4 INCH DUCTILE IRON PIPE	FOOT	0.00		\$
	6 INCH DUCTILE IRON PIPE	FOOT	0.00		\$
	8 INCH DUCTILE IRON PIPE	FOOT	0.00		
	12 INCH DUCTILE IRON PIPE				\$
22	4 INCH GATE VALVE, MJ	FOOT	0.00		\$
	6 INCH GATE VALVE, MJ	EACH	0.00		\$
		EACH	0.00		\$
	8 INCH GATE VALVE, MJ	EACH	0.00		\$
	12 INCH GATE VALVE, MJ	EACH	0.00		\$
	HYDRANT ASSEMBLIES	EACH	0.00		\$
	2 INCH SERVICE LINE, SHORT RUN	EACH	0.00		\$
18	3 INCH SERVICE LINE, SHORT RUN	EACH	0.00	\$ 2,820.00	\$

######################################	HHH	and all the second		A THE REAL PROPERTY AND
NO. ITEMS OF WORK AND MATERIALS	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1 RIGHT OF WAY MONUMENTATION	LS	0.00	\$ -	\$
2 RELOCATE WATER FACILITIES - MAINS, VALVES, ETC.	LS	1.00	\$ 30,000.00	\$ 30,000
3 RELOCATE WATER FACILITIES - METER	EACH	0.00	\$ 6,000.00	\$
4 STREET LIGHTING - UPGRADE LUMINAIRES	EACH	0.00	\$ 600.00	\$
5 STREET LIGHTING - INSTALL ARMS AND LUMINAIRES	EACH	0.00	\$ 5,000.00	\$
6 CONNECT CONTRACTOR INSTALLED TRAFFIC SIGNAL LOOPS TO CONTROLLER BY BOM	EACH	0.00	\$ 1,000.00	\$

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL AMOUNT
7	STORMWATER PLANTINGS AND PLANT ESTABLISHMENT	SQFT	0.00	\$ 20.00	\$	
8	STORMWATER OFFSITE MANAGEMENT FEE	SQFT	0.00	\$ 3.70	\$	· · · ·
9	ROCK EXCAVATION	CUYD	0.00	\$ 106.00	\$	
10	RAILROAD PROTECTION SERVICES (ONE YEAR)	LS	0.00	\$ 100,000.00	\$	
11	ASPHALT CEMENT ESCALATION	LS	1.00	\$ 	\$	
12	FUEL ESCALATION	LS	1.00	\$ 	\$	
13	TESTING CONTAMINATED MEDIA	LS	0.00	\$ 5,000.00	\$	17
14	BOLI FEE PAYMENT	LS	1.00	\$ 250.00	\$	250.00
15	CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER ESTIMATE)	LS	1.00	\$ 14,630.89	\$	14,630.89
					_	
TOT,	AL ANTICIPATED ITEMS				\$	44,880.89

SCHEDULE SUMMARY

3.5% of Bid Items 5% of Bid Items 25% of Bid Items 15% of Bid Items 79.27% of PM, Eng, and CM	\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	146,309 5,121 151,430 44,881 196,311 7,315 36,577 21,946 65,838 52,190 118,029
5% of Bid Items 25% of Bid Items 15% of Bid Items	\$ \$ \$ \$ \$ \$ \$ \$ \$	151,430 44,881 196,311 7,315 36,577 21,946 65,838 52,190
25% of Bid Items 15% of Bid Items	\$ \$ \$ \$ \$ \$ \$ \$ \$	151,430 44,881 196,311 7,315 36,577 21,946 65,838 52,190
25% of Bid Items 15% of Bid Items	\$ \$ \$ \$ \$ \$	196,311 7,315 36,577 21,946 65,838 52,190
25% of Bid Items 15% of Bid Items	\$ \$ \$ \$	7,315 36,577 21,946 65,838 52,190
25% of Bid Items 15% of Bid Items	\$	36,577 21,946 65,838 52,190
15% of Bid Items	\$	21,946 65,838 52,190
	\$	21,946 65,838 52,190
79.27% of PM, Eng, and CM	\$ \$	65,838 52,190
79.27% of PM, Eng, and CM	-	2010/07/07
	\$	118,029
	5	
	\$	-
of Land, Improve, and		
30% Damages	\$	
	\$	· · · ·
rs Inflation		
4.5% of Construction	\$	48,328
2.0% of Eng & Mgmt	\$	12,285
	d _\$	74,990
Inflation	\$	135,603
	30% Damages rs Inflation 4.5% of Construction 2.0% of Eng & Mgmt	30% Damages <u>\$</u> rs Inflation 4,5% of Construction 2.0% of Eng & Mgmt \$ 20% of Const, Eng & Mgmt, and \$

LS* Unit Price shown is on Pound, Each, or Foot Basis as applicable Remove * and change unit to 1 in the Bid Form

Page 1 of 1

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	Vancouver Ways Land Co.	Walsh Holdings LLC	Location	RW			Twin Ornamental	Single Ornamental	Cobra	Wood Pole Lights	New Lt. Poles		Illumination			Stop Bars	Arrows		Marking			Permanent	Removal		Striping		Prefabricated modular	Segmental		Ketaining wall
				Area								Ea						L, ft.		•		0	0	L, ft.		-			L, ft.	
				Cost / SF														L, ft.				0	0	L, ft.					Ht., ft.	
	ŝ	ب ب		Cost / SF Land Cost												0	0	L;Tot., ft.				0	0	L,Tot., ft.			0	0	Area,sf	
			Properties												1							Permanent	Removal		1		L	1		
	د ی	ده ۱	\$6,000	Acq./ Prop					posts/footings	Y3	Ч	W7	W7	۲W	R2	ര	G	ODOT #	Signs		W Circle	E Circle				Factor				
	ю ,	63 1	\$3,000	Appr./Prop					tings	R 1700	R 4020			R 5020	R 1060	G5550	G5500	City #	\$						Bike	2				
69 ,	ډه י	69 1		Total R/W					0.0				a a ser que de					ea		•					Tum	2				
										30	18	38	30	36	36	9	თ	Dimensions, in							skip	0.6				
		Y3	H	W7	R2	ရ	Summary			30	18	30	30	12	36	60	24	ions, in							double	2				
	0	0.0	0	0.0	0.0	0.0	mary		0	0	0	0	0	0	0	0	0	Area_sf							2 way LT	1.125				
								-		Traffic Circle Ahead	15 MPH Rider	roundabout le	roundabout le	One Way (Rt. Arrow)	Yield	Destination	Street name	Name							Fog	-				
										Ahead	-	roundabout left thru/right thru	roundabout left thru/right only	. Anow)											Spiral	-				

PB Inlets G-2 Inlets CG-2 Inlets Inlet Lead Rip Rap Trees Swales 1255 W, ft. Area, sf 0 25 1 per 2 per 400 ft. 2 per 400 ft.

Trees in Swales Trees in Planting Strip Trees in Tree Wells

0

L, ft.

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Tree Wells ombined Bike/Ped Path

L.ft. W,ft. D,ft. Vol.cy 638 1 0.5 12 12

ining Wal

			and the second s	
	1 per			SW Inlets
		Total	Length	
				Inlets & Leads
			•	
2262			260	
1872	9		208	Mono Curb Sidewalk Combined Path
390 .	7.5		52	Monolithic Curb & Driveway
0			:	Adjacent to Planting Strip
0				Adjacent to Swale
Area,sf	W, ft.	Dwy L, ft. Wings L, ft	Dwy L, ft.	
			wings)	Driveways
			(includes	
	8420		995	
	5742	9	638	Mono Curb Sidewalk Combined Path
1	2678	7.5	357	Monolithic Curb & Sidewalk

Adjacent to Planting Strip	Adjacent to Swale		Driveways			Mono Curb Sidewalk Combined Path	Monolithic Curb & Sidewalk	Separated		Sidewalks	
		Dwy L, ft.	wings)	(includes	995	638	357		L, ft.		•
		Dwy L, ft. Wings L, ft				9	7.5		W, ft.		
		W, ft.			8420	5742	2678	0	Area, sf		
0	0	Area,sf								•	

Curb Curb & 18" Gutter

	Concrete Curbs	-	Create link to Estimate >>	Sidewalk	Curb & Gutter	Cuin
۲ #				0	0	~
W, ft.						
Area, sf			.0	0.0	0.0	0,0
	I			L	Swale curb & gutter	

timate >>	k	tter					
	0	0	0	0,0	0.0	0.0	Area, sf
							Depth, in.
0	0.0	0.0	0.0	0.0	0.0	0.0	Vol.,cy
		Swale curb & gutter					

ink to Estimate >>	Sidewalk	urb & Gutter	Curb	
	0	0	0	
0	0.0	0.0	0.0	
		Swale curb & gut		

Location: Description: Current Cross-Section: Proposed Cross-Section:

Typical Sections											
	14	SW/Curb	Swale/Curb	Parking	through	Left turn	ugno.4	Parking	Swaie/Curb	SW/Curb	PL
		-									
	1								1 1 1		
				·							

<u> </u>	1	1.1		_			-			_
4 X Inch Thick	3 X Inch Thick	2 X Inch Thick	1 X Inch Thick		Aggregate Base - Thickness			3	2	
				L, ff.						
				W, ft.						
0.0	0.0	0.0	0.0	Area,sf		0	0.0	0.0	0,0	0.0
0.0	0.0	0.0	0.0	Area,SY		•				
				Depth, in.						
						0	0.0	0.0	0.0	0.0
						0	0.0	0.0	0.0	0.0
		×			7.00					

Total 4 Inch Thick Total 6 Inch Thick Total 8 Inch Thick

and and set formula and an end of the set formula an One of the set formula

1.9 T/CY

on - from Thick

Area, sf 0.0 0.0 2262 0

Vol.,cy 0.0 55.9 0.0 0.0 155.9 155.9 155.9 212

Area, sy 0

0'R/W 0'R/W

2.1 T/CY

L

60 60

0 'pavement 0 'pavement

CITY OF PORTLAND, OREGON BUREAU OF TRANSPORTATION PRELIMINARY ENGINEER'S ESTIMATE

SW Beaverton-Hillsdale Hwy from 25th Ave. to Dosch Rd. Sidewalk Infill, S. Side Date: August 18, 2016

By: RB

PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF SW Beaverton-Hillsdale Hwy FROM 25th Ave. TO Dosch Rd.

VALUES IN BLUE ARE PERCENT OF CONTRACT.

manner Did II LINS minim	#######################################	BID ITEM	S #######
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NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL AMOUNT
1	MOBILIZATION	LS	1.00	\$ 26,522.86	\$	26,522.86
2	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	LS	1.00	\$ 7,956.86	\$	7,956.86
3	TEMPORARY SIGNS	SQFT	54.00	\$ 20.00	\$	1,080.00
4	TEMPORARY BARRICADES, TYPE II	EACH	0.00	\$ 100.00	\$	-
	TEMPORARY BARRICADES, TYPE III	EACH	0.00	\$ 150.00	\$	*
6	TEMPORARY CONCRETE BARRIER, REFLECTORIZED	FOOT	0.00	\$ 17.00	\$	
7	MOVING TEMPORARY CONCRETE BARRIER	FOOT	0.00	\$ 5.30	\$	+
8	TEMPORARY IMPACT ATTENUATOR	EACH	0.00	\$ 1,150.00	\$	-
9	TEMPORARY PEDESTRIAN WALKWAYS	FOOT	0.00	\$ 65.00	\$	Η.
10	TEMPORARY PLASTIC DRUMS	EACH	5.00		\$	260.00
	TEMPORARY REFLECTIVE PAVEMENT MARKERS	EACH	0.00		\$	
	TEMPORARY FLEXIBLE PAVEMENT MARKERS	EACH	0.00		\$	
	TEMPORARY STRIPING	FOOT	0.00	and the second sec	\$	
	STRIPE REMOVAL	FOOT	0.00	plant or provide the second se	ŝ	
	STRIPING & STRIPE REMOVAL MOBILIZATION	EACH	0.00	and a state of the second seco	\$	1
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	0.00	hands the second s	\$	
	SEQUENTIAL ARROW SIGNS	EACH	0.00		\$	4
and the second second	PORTABLE CHANGEABLE MESSAGE SIGNS	EACH	1.00		\$	4,330.00
	FLAGGERS	HOUR	500.00	the second	\$	24,250.00
	TRAFFIC CONTROL SUPERVISOR	HOUR	0.00		¢	24,200.00
10 C 10 C 10	TEMPORARY TYPE ORANGE PLASTIC MESH FENCE	FOOT	0.00		\$	
C 1444	TEMPORARY CL-6R CHAIN LINK FENCE	FOOT	0.00	the second	\$	
	EROSION CONTROL	LS	1.00		\$	2,652.29
	PLASTIC SHEETING	SQFT	0.00	101 112 10 100 A	\$	2,052.23
- A .	And Ar And USA WALLAR AND AND AND COMPANY COMPANY		0.00		¢	
	MATTING CONSTRUCTION ENTRANCES	SQFT EACH	0.00	NAME OF TAXABLE AND DESCRIPTION OF TAXABLE AND DESCRIPANTE AND DESCRIPTION	ф Ф	
				to all a second to a second to be a second to a second	ф Ф	
	SEDIMENT FENCE, SUPPORTED	FOOT	0.00		\$	1 505 00
	SEDIMENT FENCE, UNSUPPORTED	FOOT	638.00	The same second s	\$	1,595.00
	INLET PROTECTION	EACH	7.00		\$	616.00
124.24	POLLUTION CONTROL PLAN	LS	1.00		\$	265.23
	CONTAMINATED MEDIA DISPOSAL	CUYD	0.00	and the second sec	\$	-
	TRUCK LINERS	EACH	0.00	success in the second of the second s	\$	
	HASP/CMDP WORKPLANS	LS	0.00	and the second	\$	
	REMOVAL OF PIPES	FOOT	0.00	and the second sec	\$	
100 miles	REMOVAL OF CURBS	FOOT	0.00		\$	Ŧ
	REMOVAL OF WALKS AND DRIVEWAYS	SQYD	0.00		\$	
and a second second	REMOVAL OF SURFACINGS	SQYD	0.00	tele	\$	
	REMOVAL OF INLETS	EACH	0.00	and the second s	\$	
	REMOVAL OF MANHOLES	EACH	0.00	and the second s	\$	-
	REMOVAL OF RAILROAD TRACK AND TIES	FOOT	0.00	5	\$	-
	SALVAGING AND STOCKPILING OF COBBLESTONES	SQYD	0.00		\$	
42	REMOVE AND REINSTALL HORSE RINGS	EACH	0.00		\$	
	REMOVAL OF STRUCTURES & OBSTRUCTIONS	LS	1.00		1.00	10,609.15
44	REMOVAL OF FENCES	FOOT	0.00		\$	
10.00	CLEARING AND GRUBBING	LS	1.00		\$	6,895.94
100 million (1	TREE ROOT REMOVAL	HOUR	0.00	The local sector is a sector of the local sector is a sector is a sector of the local sector i	\$	
47	TREE TRIMMING	HOUR	0.00		\$	
48	DITCH EXCAVATION	CUYD	0.00	\$ 18.00	\$	and the state
49	GENERAL EXCAVATION	CUYD	212.00		\$	10,388.00
	SURCHARGE EXCAVATION	CUYD	0.00	\$ 3.80	\$	-
51	EMBANKMENT IN PLACE	CUYD	0.00		\$	-

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NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
52	SETTLEMENT PLATE	EACH	0.00	the second se	\$ -
53	12 INCH SUBGRADE STABILIZATION	SQYD	0.00		\$ -
54	AGGREGATE DITCH LINING	SQYD	0.00		\$ -
	WATERING	MGAL	0.00	\$ 26.20	\$ -
56	DRAINAGE GEOTEXTILE, TYPE 2	SQYD	0.00	\$ 1.05	\$ -
57	EMBANKMENT GEOTEXTILE	SQYD	0.00	\$ 1.50	\$ -
	SUBGRADE GEOTEXTILE	SQYD	0.00	\$ 1.25	\$ ~
	GEOGRID	SQYD	0.00	\$ 2.60	\$ -
	GRANULAR DRAINAGE BLANKET	TON	0.00	\$ 93.00	\$ -
1000	FILTER BLANKET	SQYD	0.00		\$ -
	LOOSE RIPRAP, CLASS 50	CUYD	0.00	a barry and a state of a part of the	\$ -
	LOOSE RIPRAP, CLASS 100	CUYD	0.00	and a second sec	\$ -
	WIRE MESH SLOPE PROTECTION	SQFT	0.00		\$ - \$ -
	VIDEO INSPECTION OF SEWERS, MAINLINE	FOOT	0.00	Indexes and a second se	\$ -
	TRENCH EXCAVATION, COMMON	CUYD	0.00	interest in the second second	\$ -
Contraction (EXPLORATORY EXCAVATION	CUYD	0.00	the second se	\$ -
1.000 1.000	POTHOLE EXCAVATION	EACH	0.00	1.94.2	\$ -
the stand	TRENCH FOUNDATION STABILIZATION	CUYD	0.00	\$ 61.00	\$ -
And the second second	TRENCH BACKFILL, CLASS B	CUYD	0.00		\$ -
	STORMWATER CURB EXTENSIONS	SQFT	0.00		\$ -
100 million and 1	STORMWATER PLANTERS	SQFT	0.00		\$ -
1000	STORMWATER SWALES	SQFT	0.00		\$ -
	3 INCH DRAIN PIPE	FOOT	0.00		\$ -
	SUBSURFACE DRAIN OUTLETS	EACH	0.00		\$ -
	12 INCH PIPE, PVC AWWA C900, CI 150, BEDDING TYPE: D, COMPLETE	FOOT	0.00		\$ -
	6 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D	FOOT	0.00		\$ -
11110	8 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D	FOOT	0.00		\$ -
	10 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE	FOOT	30.00		\$ 3,300.0
	12 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE	FOOT	0.00		\$ -
	18 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D	FOOT	0.00		\$ -
	10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE	FOOT	0.00		\$ -
	12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE	FOOT	0.00	and share and an an an an and particle of a second of	\$ -
and the second second	8 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	FOOT	0.00	A CONTRACTOR OF A CONTRACTOR O	\$ -
The second	10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	FOOT	0.00		\$ -
	12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D	FOOT	0.00		5
10000	CONCRETE CLOSURE COLLAR	EACH	0.00	and a second product of the second se	5 -
	CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH CONCRETE MANHOLES, 48 INCH, DEEPER THAN 8 FT	EACH	0.00		\$ -
	CONCRETE MANHOLES, 46 INCH, DEEPER THAN 8 FT	FOOT	0.00		\$ -
		EACH	0.00		\$ -
	CONCRETE MANHOLES, WATER QUALITY CONCRETE MANHOLES, SEDIMENTATION	EACH	0.00	and a second sec	\$ - \$ -
	CONCRETE MANHOLES, SUMP	EACH	0.00		\$ -
	SUMP CAPACITY TEST	EACH	0.00	Carl Control of the Carl State	\$ -
Sector 1	CONCRETE INLETS, TYPE CG-1	EACH	0.00	123	\$ -
	CONCRETE INLETS, TYPE CG-2	EACH	3.00		\$ 5,700.0
	CONCRETE INLETS, TYPE CG-3	EACH	0.00		\$ -
	CONCRETE INLETS, TYPE D	EACH	0.00	US III	\$
- Col 6 - Col	CONCRETE INLETS, TYPE G-1	EACH	0.00		\$ -
	CONCRETE INLETS, TYPE G-2	EACH	0.00		\$
100 million (1997)	CONCRETE INLETS, TYPE G-2MA	EACH	- 0.00		\$ -
	CONCRETE INLETS, DEEPER THAN 4 FT	FOOT	0.00		
0.000	CONCRETE INLETS, TYPE METAL	EACH	0.00	and the second s	\$ - \$ -
	CONCRETE INLETS, TYPE METAL, MODIFIED	EACH	0.00	and the second sec	\$ -
	CONCRETE INLETS, TYPE CHANNEL & GRATE	EACH	0.00	and the second sec	\$ -
	CONCRETE INLETS, TYPE CONCRETE	EACH	0.00	and the second s	\$ -
	CONCRETE INLETS, TYPE BEEHIVE	EACH	0.00		S -
2-1-1-1-1 B	CATCH BASINS, METAL SUMP	EACH	0.00	(5) a A 2018 Me 14 Me 1	\$ -
10000	ACCESS DOORS	EACH	0.00	A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY AND A REAL PRO	\$ -
1.000	DRAINAGE CURBS	FOOT	0.00	A Sector of the	\$ -
10.00	ADJUSTING BOXES	EACH	0.00	part of the second s	s -
Sec. 19.	CONNECTION TO EXISTING STRUCTURES	EACH	0.00		\$ -
1.2020	ADJUSTING INLETS	EACH	0.00	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	\$ -
12/28	FILLING ABANDON STRUCTURES	EACH	0.00	hand the second se	\$ -
90.53	MINOR ADJUSTMENT OF MANHOLES	EACH	2.00	source and the second s	\$ 1,284.0
			- 0.00	and the second s	+ 1,204,0

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NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUN
117	MANHOLES OVER EXISTING SEWERS	EACH	0.00	the second se	\$
	TRENCH RESURFACING	SQYD	0.00		\$
19	TEMPORARY TRENCH RESURFACING	SQYD	0.00		\$
20	SHORING, CRIBBING AND COFFERDAMS	LS	0.00	\$ -	\$
21	STRUCTURE EXCAVATION	CUYD	0.00	\$ 48.30	\$
22	GRANULAR WALL BACKFILL	CUYD	0.00	\$ 63.90	\$
the same of	GRANULAR STRUCTURAL BACKFILL	CUYD	0.00	\$ 40.60	\$
10 A 10	REINFORCEMENT	LS*	0.00	\$ 0.86	\$
	CONCRETE BRIDGE	SQFT	0.00	\$ 250.00	\$
	BIKE OASIS	EACH	0.00		\$
	3 INCH ELECTRICAL CONDUIT	FOOT	0.00	\$ 9.05	\$
	ASPHALTIC PLUG JOINT SEALS	LS	0.00	\$ 7,470.00	\$
	ASPHALTIC PLUG JOINT SEAL MATERIAL	CUYD	0.00		\$
	CONCRETE BRIDGE RAIL WITH ORNAMENTAL PROTECTIVE SCREENING	LS*	0.00	\$ 158.00	\$
	RETAINING WALL, CAST-IN-PLACE CONCRETE	SQFT	0.00	\$ 95.80	\$
	RETAINING WALL, GABION	SQFT	0.00	\$ 24.10	\$
	RETAINING WALL, PREFABRICATED MODULAR	SQFT	0.00	\$ 39.50	\$
	RETAINING WALL, CONVENTIONAL SEGMENTAL	SQFT	0.00		\$
	RETAINING WALL, MSE	SQFT	0.00		\$
	SOUND WALLS	SQFT	0.00		\$
37	CONCRETE ARCH CULVERT	FOOT	0.00	\$ 1,530.00	\$
	CONCRETE SLOPE PAVING	SQFT	0.00	\$ 11.25	\$
39	COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP	SQYD	0.00	\$ 3.42	\$
40	COLD PLANE PAVEMENT REMOVAL, 3 INCH DEEP	SQYD	0.00	\$ 3.42	\$
	COLD PLANE PAVEMENT REMOVAL, 4 INCH DEEP	SQYD	0.00	\$ 3.42	\$
42	COLD PLANE PAVEMENT REMOVAL, 5 INCH DEEP	SQYD	0.00	\$ 3.42	\$
	AGGREGATE BASE	TON	0.00	\$ 36.90	\$
44	AGGREGATE BASE, 4 INCH THICK	SQYD	0.00		\$
45	AGGREGATE BASE, 6 INCH THICK	SQYD	0.00	\$ 9.80	\$
46	AGGREGATE BASE, 8 INCH THICK	SQYD	0.00		\$
47	LEVEL 1, 1/2 INCH DENSE, MWMAC MIXTURE, IN TEMPORARY	TON	0.00	\$ 89.50	\$
48	LEVEL 2, 1/2 INCH DENSE, MWMAC MIXTURE	TON	0.00	\$ 89.50	\$
49	LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE	TON	0.00	\$ 89.50	\$
50	LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE, IN LEVELING	TON	0.00	\$ 89.50	\$
51	LEVEL 3, 3/4 INCH ATPB, MWMAC MIXTURE	TON	0.00	\$ 89.50	\$
52	CRACK SEALING	FOOT	0.00	\$ 1.00	\$
53	13 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SQYD	208.00	\$ 179.00	\$ 37,232
54	16 INCH ASPHALT CONCRETE PAVEMENT REPAIR	SQYD	0.00	\$ 112.00	\$
55	EXTRA FOR ASPHALT APPROACHES	EACH	0.00	\$ 651.00	\$
56	ASPHALT CONNECTIONS	SQFT	0.00	\$ 7.30	\$
	ASPHALT SPEED BUMPS	EACH	0.00	\$ 1,800.00	\$
58	PLAIN CONCRETE PAVEMENT, UNDOWELLED, 6 INCH THICK	SQYD	0.00	\$ 64.70	\$
	PLAIN CONCRETE PAVEMENT, UNDOWELLED, 8 INCH THICK	SQYD	0.00		\$
60	PLAIN CONCRETE PAVEMENT, UNDOWELLED, 10 INCH THICK	SQYD	0.00	\$ 68.10	\$
61	PLAIN CONCRETE PAVEMENT, UNDOWELLED, 12 INCH THICK	SQYD	0.00		\$
62	PLAIN PERVIOUS CONCRETE PAVEMENT, UNDOWELLED, 10-INCH THICK	SQYD	0.00	\$ 73.00	\$
53	CONCRETE CURBS, CURB AND GUTTER	FOOT	0.00	\$ 33.03	\$
64	CONCRETE CURBS, STANDARD CURB	FOOT	0.00	The second	\$
65	CONCRETE CURB, MOUNTABLE CURB	FOOT	0.00		\$
66	CONCRETE CURBS, THICKENED CURB AND GUTTER	FOOT	- 0.00		\$
37	CONCRETE ISLANDS	SQFT	0.00		\$
38	CONCRETE DRIVEWAYS	SQFT	2,262.00	And a second sec	\$ 19,000
59	CONCRETE DRIVEWAYS, REINFORCED	SQFT	0.00		\$
	CONCRETE WALKS	SQFT	0.00	and the second	\$
1	MONOLITHIC CURB AND SIDEWALKS	SQFT	8,420.00	and a second	\$ 151,560
	MONOLITHIC CURB GUTTER AND SIDEWALKS	SQFT	0.00		\$
	CONCRETE VALLEY GUTTER	FOOT	0.00	2 Million (1977) 300 - 64 Million	\$
	6 INCH CONCRETE SURFACING	SQFT	0.00	and the second se	\$
	CONCRETE STAIRS	CUYD	0.00	PA AN IL MARK - PROPERTY AND	\$
Aug. 44. 1	CONCRETE DRIVEWAY CONNECTIONS	SQFT	1010101	\$ 7.75	\$
1	CONCRETE SIDEWALK RAMPS	EACH	0.00	And and a second s	\$
	CONCRETE BUS SHELTER PADS	EACH	0.00		\$
1.1.1.1.1.1.1	DETECTABLE WARNING SURFACE	SQFT	0.00		\$
1000	MONOLITHIC SIDEWALKS AND WALL, REINFORCED	SQFT	0.00	2	\$ \$
		SQFT	. 0.00	A	17

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			TOTAL		TOTAL
Ю.	ITEMS OF WORK AND MATERIALS	UNIT '	QUANTITY	UNIT PRICE	AMOUNT
	CONCRETE PAVERS	SQFT	0.00	\$ 11.70	\$ -
	PERMEABLE PAVERS	SQFT	0.00		\$-
	CONCRETE RAILROAD CROSSING	FOOT	0.00		\$ -
	GUARDRAIL, TYPE 2A	FOOT	0.00		\$ -
		FOOT	0.00		\$ -
		EACH	0.00		\$ - \$ -
	GUARDRAIL END PIECES, TYPE C GUARDRAIL TRANSITION	EACH EACH	0.00		s - \$ -
	GUARDRAIL CONNECTIONS	EACH	0.00		y - \$ -
	GUARDRAIL TERMINALS, NON-FLARED	EACH	0.00		\$-
	GUARDRAIL TERMINALS, FLARED	EACH	0.00		\$ -
	REMOVABLE BOLLARDS	EACH	- # 1		\$ -
194	CONCRETE BARRIER	FOOT	0.00	\$ 35.40	\$ -
95	IMPACT ATTENUATORS, TYPE B	EACH	0.00	\$ 4,780.00	\$ -
96	IMPACT ATTENUATORS, TYPE E	EACH	0.00	\$ 16,000.00	\$ -
	DELINEATORS TYPE 2	EACH	0.00		\$ -
	DELINEATORS TYPE 4	EACH	0.00		\$ -
	PAVEMENT LINE REMOVAL	FOOT	0.00	The second secon	\$ -
	PAVEMENT LEGEND REMOVAL	EACH	0.00		\$ -
		SQFT	0.00		\$ -
	BI-DIRECTIONAL YELLOW TYPE I MARKERS MONO-DIRECTIONAL WHITE TYPE I MARKERS	EACH EACH	0.00		\$ - \$ -
	LONGITUDINAL PAVEMENT MARKING - PAINT	FOOT	0.00		\$ -
	CURB MARKINGS - PAINT	FOOT	0.00		<u>v</u> - \$ ~
	THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED	FOOT	0.00		\$-
	PAVEMENT LEGEND, TYPE B: ARROWS	EACH	0.00	\$ 279.00	\$ -
	PAVEMENT LEGEND, TYPE B: "ONLY"	EACH	0.00	and a second sec	\$ -
	PAVEMENT LEGEND, TYPE B: BICYCLE LANE SYMBOLS	EACH	0.00		\$ -
	PAVEMENT LEGEND, TYPE B-HS: ARROWS	EACH	0.00	\$ 261.00	\$ -
211	PAVEMENT LEGEND, TYPE B-HS: BICYCLE LANE OR PEDESTRIAN STENCIL	EACH	10.00	\$ 290.00	\$ 2,900.00
	PAVEMENT BAR , TYP B-HS	SQFT		\$ 9.90	\$ -
	PAVEMENT BAR, TYPE A	SQFT	· · · · · · · · · · · · · · · · · · ·	\$ 4.50	\$ -
	PAVEMENT BAR, TYPE B	SQFT	0.00		<u>\$</u>
	REMOVE EXISTING SIGNS	LS*	0.00		\$
	REMOVE & REINSTALL EXISTING SIGNS SIGN SUPPORT FOOTINGS, BREAKAWAY	LS* LS*	0.00		<u>\$</u> - \$-
	SIGN SUPPORT FOOTINGS, BREARAWAT	LS LS*	0.00		<u> </u>
	PIPE SIGN SUPPORTS	LS*	0.00		γ – \$ –
	TYPE "B" SIGNS IN PLACE	SQFT	0.00		\$- -
	TYPE "B1" SIGNS IN PLACE	SQFT		\$ 23.20	<u> </u>
	TYPE "C" SIGNS IN PLACE	SQFT	0.00		\$ -
	TYPE "G" SIGNS IN PLACE	SQFT	0.00		\$ -
	TYPE "G1" SIGNS IN PLACE	SQFT		\$ 36.10	\$-
225	TYPE "G5" SIGNS IN PLACE	SQFT	0.00	· · · ·	\$ -
	TYPE "R" SIGNS IN PLACE	SQFT	0.00		\$ ~
	TYPE "R1" SIGNS IN PLACE	SQFT	0.00	· · ·	\$-
	TYPE "W1" SIGNS IN PLACE	SQFT	0.00		\$ -
	TYPE "W2" SIGNS IN PLACE	SQFT	0.00	· .	-
	TYPE "W4" SIGNS IN PLACE	SQFT	0.00		\$ -
	TYPE "W6" SIGNS IN PLACE	SQFT	. 0.00		<u>\$</u>
	TYPE "W7" SIGNS IN PLACE	SQFT	1	\$ 20.60 \$ 25.60	<u>\$</u> -
	TYPE "W12" SIGNS IN PLACE TYPE "Y1 "SIGNS IN PLACE	SQFT SQFT	0.00		\$- \$-
	TYPE TT SIGNS IN PLACE	SQFT	1	\$ 19.00 \$ 14.60	<u>⊅</u> - \$-
	REMOVAL OF ELECTRICAL SYSTEMS (lighting)	LS*	0.00		<u> </u>
	REMOVAL OF ELECTRICAL SYSTEMS (lighting)	LS*	0.00		\$
	POLE FOUNDATIONS	LS*		\$ 2,000.00	\$-
	LIGHTING POLES, FIXED BASE	LS*	0.00		\$-
	LIGHTING POLE ARMS	LS*	0.00		\$ -
	LUMINAIRES, LAMPS AND BALLASTS	LS*	0.00		\$ -
	SWITCHING, CONDUIT AND WIRING	LS*	0.00		\$ -
	TRAFFIC SIGNAL INSTALLATION	LS*	0.00		\$-
	TRAFFIC SIGNAL MODIFICATION	LS*	0.00	afa a af	\$ -
	FLASHING BEACON INSTALLATION	LS*	0.00		

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
246	LOOP DETECTOR INSTALLATION	LS*	0.00	\$ 9,120.00	\$ -
	INTERCONNECT SYSTEM (underground)	LS*	0.00	and the second	\$ 4
248	INTERCONNECT SYSTEM (overhead)	LS*	0.00		\$ -
	TRAFFIC CAMERA INSTALLATION	LS*	0.00	and the second sec	\$ -
	PERMANENT SEEDING	ACRE	0.00		\$ -
	LAWN SEEDING	SQYD	71.00		\$ 712.84
and the second se	TOPSOIL	CUYD	12.00		\$ 720.00
	SOIL CONDITIONER	CUYD	0.00		\$ -
	CONIFER TREES, 9 FT HEIGHT	EACH	0.00	and it is a second s	\$ -
	DECIDUOUS TREES, 2-1/2 INCH CALIPER	EACH	0.00	and the second sec	\$ -
	DECIDUOUS TREES, 3 INCH CALIPER	EACH	0.00	and the second se	\$ -
	SHRUBS, NO. 1 CONTAINER	EACH	0.00		s -
	SHRUBS, NO. 2 CONTAINER	EACH	0.00	the second	\$ -
	SHRUBS, NO. 3 CONTAINER	EACH	0.00		\$ -
	SHRUBS, NO. 5 CONTAINER	EACH			
	GROUND COVERS, NO. 1 CONTAINERS	EACH	0.00		\$ - \$ -
	GROUND COVERS, 4 INCH POTS	EACH	0.00		1
	BULBS	and the second sec	101000	1911	\$ -
	SEEDLING PLANTS	EACH	0.00	\$ 2.40	\$ -
		EACH	0.00		\$ -
	ROOTED PLANT CUTTINGS	EACH	0.00	and a second sec	\$ -
	SOD LAWN	SQYD	0.00	and a second sec	\$ -
	BARK MULCH	CUYD	0.00		\$ -
	ROCK MULCH	TON	0.00	and a second sec	\$ -
	ADDITIONAL ESTABLISHMENT PERIOD	YEAR*	0.00		\$ -
	TREE GRATES	EACH	0.00		\$ -
	ROOT BARRIER	FOOT	0.00	in and in the second seco	\$ -
	TREE GRATE FRAMES	EACH	0.00		\$ -
	BORDER EDGING	FOOT	0.00	transfer and the second s	\$ -
	TYPE 2 FENCE	FOOT	0.00	\$ 6.85	\$ -
	CL-6 CHAIN-LINK FENCE	FOOT	0.00		\$ -
	CL-6R CHAIN-LINK FENCE	FOOT	0.00	\$ 22.90	\$ -
277	CL-4R CHAIN-LINK FENCE WITH VINYL CLAD FABRIC	FOOT	0.00	\$ 27.80	\$ -
278	ORNAMENTAL PROTECTIVE SCREENING	FOOT	0.00	\$ 158.00	\$ -
279	REMOVING AND REBUILDING FENCE	FOOT	0.00	\$ 27.40	\$ -
280	SINGLE MAILBOX SUPPORTS	EACH	1.00	\$ 300.00	\$ 300.00
281	MULTIPLE MAILBOX SUPPORTS	EACH	0.00	\$ 339.00	\$ -
282	MAILBOX CONCRETE COLLARS	EACH	0.00	\$ 66.00	\$ -
283	REMOVE & REINSTALL MAILBOX SUPPORTS	EACH	0.00	\$ 224.00	\$ -
284	BENCHES, TYPE	EACH	0.00	\$ 3,090.00	\$ -
285	BICYCLE RACKS	EACH	0.00	and the second se	\$ -
	LITTER RECEPTACLES	EACH	0.00		\$ -
	IRRIGATION SYSTEM	LS	0.00		\$ -
	4 INCH DUCTILE IRON PIPE	FOOT	0.00		\$ -
and a second	6 INCH DUCTILE IRON PIPE	FOOT	0.00		\$ -
	8 INCH DUCTILE IRON PIPE	FOOT	0.00		*
	12 INCH DUCTILE IRON PIPE	FOOT	0.00		¢
a property and	4 INCH GATE VALVE, MJ	EACH	0.00		\$ -
1000	6 INCH GATE VALVE, MJ	EACH	0.00	These is a second secon	\$ -
	8 INCH GATE VALVE, MJ				\$ •
77.57.97	NY AND DESCRIPTION OF DESCRIPTIONO OF DESCRIPTION OF DESCRIPTIONO OF DESCRIPTIONO OF DESCRIPANO OF DESCRIPTIONO OF DESCRIPANO	EACH	0.00		\$ -
1 m / m / m / m	12 INCH GATE VALVE, MJ	EACH	- 0.00		\$ -
1.1.1.1.1.1	HYDRANT ASSEMBLIES	EACH	0.00		\$ -
	2 INCH SERVICE LINE, SHORT RUN	EACH	0.00		\$ -
298	3 INCH SERVICE LINE, SHORT RUN	EACH	0.00	\$ 2,820.00	\$

####### ANTICIPATED ITEMS ###	####	and the second		and the second second		A Sector Sector
NO. ITEMS OF WORK AND MATERIALS	UNIT	QUANTITY	U	NIT PRICE	1	AMOUNT
1 RIGHT OF WAY MONUMENTATION	LS	0.00	\$		\$	1
2 RELOCATE WATER FACILITIES - MAINS, VALVES, ETC.	LS	1.00	\$	30,000.00	\$	30,000.00
3 RELOCATE WATER FACILITIES - METER	EACH	0.00	\$	6,000.00	\$	-
4 STREET LIGHTING - UPGRADE LUMINAIRES	EACH	0.00	\$	600.00	\$	-
5 STREET LIGHTING - INSTALL ARMS AND LUMINAIRES	EACH	0.00	\$	5,000.00	\$	-
6 CONNECT CONTRACTOR INSTALLED TRAFFIC SIGNAL LOOPS TO CONTROLLER BY BOM	EACH	0.00	\$	1,000.00	\$	÷

NO.	ITEMS OF WORK AND MATERIALS		TOTAL QUANTITY		UNIT PRICE		TOTAL AMOUNT
7	STORMWATER PLANTINGS AND PLANT ESTABLISHMENT	SQFT	0.00	\$	20.00	\$	(e.
8	STORMWATER OFFSITE MANAGEMENT FEE	SQFT	0.00	\$	3.70	\$	-
9	ROCK EXCAVATION	CUYD	0.00	\$	106.00	\$	-
10	RAILROAD PROTECTION SERVICES (ONE YEAR)	LS	0.00	\$	100,000.00	\$	-
11	ASPHALT CEMENT ESCALATION	LS	1.00	\$	-	\$	*
12	FUEL ESCALATION	LS	1.00	\$		\$	¥.
13	TESTING CONTAMINATED MEDIA	LS	0.00	\$	5,000.00	\$	8
14	BOLI FEE PAYMENT	LS	1.00	\$	320.13	\$	320.13
15	CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER ESTIMATE)	LS	1.00	\$	32,013.10	\$	32,013.10
15.5						_	
TOT	AL ANTICIPATED ITEMS					\$	62,333.23

SCHEDULE SUMMARY

			¢	320,131
		3 5% of Bid Items		11,205
		0.070 0.000	\$	331,336
			\$	62,333
			\$	393,669
		5% of Bid Items	\$	16,007
		25% of Bid Items	\$	80,033
		15% of Bid Items	\$	48,020
			\$	144,060
		79.27% of PM, Eng, and CM	\$	114,196
			\$	258,256
			\$	
			\$	5
		of Land, Improve, and		
		30% Damagés	\$	
in the second second			\$	
-	Years	Inflation		
~ ~	5	4.5% of Construction	\$	96,914
	5	2.0% of Eng & Mgmt	\$	26,879
		20% of Const, Eng & Mgmt, and	\$	155,144
		masn	\$	278,937
			\$	930,861
		5	25% of Bid Items 15% of Bid Items 79.27% of PM, Eng, and CM of Land, Improve, and 30% Damages Years Inflation 5 4.5% of Construction 5 2.0% of Eng & Mgmt	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

LS* Unit Price shown is on Pound, Each, or Foot Basis as applicable Remove * and change unit to 1 in the Bid Form



A Joint Letter from the Bicycle Advisory Committee & Pedestrian Advisory Committee 1120 SW 5th Avenue Room 800, Portland OR 97204

August 24, 2016

Metro Council 600 NE Grand Ave Portland, OR 97232

The City of Portland Bureau of Transportation (PBOT) Pedestrian Advisory Committee and Bicycle Advisory Committee consist of a wide cross-section of Portlanders who come together to advise City decision makers on matters related to their particular transportation mode. Members come from every area of the City as well as a broad spectrum of interests and professional backgrounds. Each modal committee has been an ongoing contributor and advisor during the City's Regional Flexible Fund selection process.

Each committee has reviewed the projects and feels that all of the projects, both collectively and individually, are strong candidates that would bring needed investment to geographic areas where it has long been lacking. Therefore as modal Chairs, we would like to express the support of our committees for the City of Portland applications for Metro's Regional Flexible Funds for the following active transportation projects:

- Brentwood-Darlington Safe Routes to School Sidewalk Infill & Neighborhood Greenway: Provides Brentwood-Darlington, an underserved neighborhood that relies on active transportation, walking and bicycle facilities. The project will improve safety in a high-crash area and removes conflicts between modes to improve access to and from priority destinations.
- Connected Cully, Phase 2 NE 72nd Ave Pedestrian/Bicycle Parkway: Provides the Cully neighborhood low-stress walking and bicycling facilities. Traditionally a lower socioeconomic neighborhood with high concentration of low-income Hispanic residents, the project will improve a high-crash area, provide access to and from priority destinations (i.e. schools, parks and economic centers) and ultimately is supported by the community through stakeholder engagement.
- David Douglas Safe Routes to School Sidewalk Infill on 117th, 130th, and Mill: Provides David Douglas High School and the surrounding neighborhoods a safe route for students to get to school. The David Douglas School District is one of the most diverse communities within the Portland Metropolitan Region yet it is deficient in active transportation facilities. This project will close sidewalk gaps, create safe bicycle facilities and most importantly has strong support from the residents, David Douglas High School and political representatives in the area.
- Hillsdale Town Center Pedestrian Connections: Sidewalk Infill on SW Beaverton-Hillsdale Hwy: Provides the Hillsdale Town Center with pedestrian facilities between nearby Robert Grey Middle School, Mary Rieke Elementary and Wilson High School. This project has strong community support and will improve access to an underserved community with many children and seniors adjacent to a High Crash Corridor.

- Jade & Montavilla Connected Centers Project: Provides multi-modal improvements in key areas to the up and coming Jade District and Montavilla Neighborhood Centers. These improvements will promote safety along a high crash corridor, address climate change and health through the creation of a walkable and bikeable network and serve diverse communities of color.
- NE Halsey Safety & Access to Transit: Provide solutions to problems in this High Crash Network. Using the suite of tools, which include signal improvements, intersection redesigns, pedestrian improvements and bicycle facilities, this project will alleviate deficiencies in the transportation network and better connect the growing population to the developing economic centers in this area.
- N. Portland Greenway Trail: Baltimore Woods Segment: Provides a better active transportation connection between nature, places of interest, job corridors and other priority locations. This project will add bicycle lanes, sidewalks, off-street pathways and other improvements to create a high quality network of alternative options for the St. Johns neighborhood.
- Outer Stark and Outer Halsey Complete Streets Project Development: Provide safety improvements to a High Crash Network that affects all modes. This project will add bicycle and pedestrian facilities for an area that is highly dependent on single occupancy vehicles thereby giving the residents greater choice in their transportation options and modes. These updates will also serve a diverse community that is low-income and has a high percent of immigrant/refugee or identify as people of color.

Each of these projects are region-wide investments that make our communities more livable and give people choices in how they travel. Each of these projects score high on the prioritization criteria by serving underrepresented populations that are in projected high growth areas in the Portland Metro region, improving safety in high crash corridors, and providing access to priority destinations.

These projects achieve multiple transportation policy objectives for both a bicycling and walking perspective and support Metro's efforts to address air quality requirements by ensuring the region reduces its reliance on fossil fuel consumption and single occupancy trips. Each of these projects provides significant transportation benefits to the Portland Metropolitan Region in helping to ensure that our transportation system is strong, diverse and efficient.

Respectfully submitted on behalf of Portland's Pedestrian Advisory Committee and Bicycle Advisory Committee,

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Roger Averbeck, Co-Chair Pedestrian Advisory Committee

patner Mclau

Heather McCarey, Chair Bicycle Advisory Committee



Rithy Khut, Vice-Chair Bicycle Advisory Committee

Please note: PAC members Rebecca Hamilton, Co-Chair and Anthony Buczek, as Metro employees, recused themselves from participating in all discussions related to the RFF project selection and related issues.

cc: Joint Policy Advisory Committee on Transportation (JPACT)